



MDR-8000

DIGITAL MICROWAVE RADIO

2009 PRICING MANUAL
Revision 5.0

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INTRODUCTION

MDR-8000 Digital Radio

The MDR-8000 Microwave Digital Radio is a point-to-point microwave digital radio operating in the 2, 4, 5.8, Lower 6, Upper 6, 7, 8, 10- and 11-GHz frequency bands. The MDR-8000 is capable of carrying 4, 8, 16, or 32 x 1.544-Mb/s for low capacity applications. It is also capable of carrying 1, 2 (Part 74), or 3 x 45 Mb/s or 3 x 52 Mb/s for high capacity applications. In addition, it offers both OC-3 and Ethernet transport capabilities. Standard configurations available are as follows: non-standby, non-standby transmit with space diversity receivers, hot standby transmitters and receivers, hot standby transmitters with space diversity receivers, and frequency diversity. Non-standby space diversity ring configurations require the use of two non-standby transmit with space diversity receiver configurations. The MDR-8000 can be mounted within an optional 7' EIA standard 19" rack equipped with a Power Distribution Unit (PDU). Power is plus or minus 24 or 48 VDC. Radio configurations have several options.

The MDR-8000-DS1 low capacity product line incorporates two state-of-the-art modulation choices, 32 or 128 Trellis Coded Modulation (TCM). The MDR-8500 utilizes 32 TCM, providing maximum system gain for longer paths, higher availability, and smaller sized antennas. The MDR-8700 utilizes 128 TCM, providing maximum spectral efficiency for use at congested nodal sites or where only limited RF bandwidths are available. A simple sub-board change converts one type of modulation to the other, thereby offering the user the maximum benefit depending upon capacity, path length, availability, and frequency congestion.

The MDR-8600-DS3 high capacity product line utilizes 64 QAM providing both maximum system gain and spectral efficiency. A simple sub-board change allows capacity growth from 1 DS3 to 3 DS3. The MDR-8700s (s=SONET) utilizes 128 TCM with an OC-3 interface capable of carrying 3 STS-1 signals.

The MDR-8500E and MDR-8700E Ethernet product line utilizes 32 TCM and 128 TCM providing spectral efficiency for packet based applications. Throughput capacity options include 8 Mbps, 12 Mbps, 24 Mbps, 50 Mbps, and 150 Mbps, full duplex. The Ethernet radio is designed to transport both DS1s and Ethernet simultaneously, and bandwidth can be allocated between the two traffic types dynamically. Depending on the radio bandwidth, up to 32 DS1s can be provisioned along with the Ethernet bandwidth. Capacity growth or upgrades from TDM radios are easily accomplished.

MDR-8704s - 4 GHz - SONET (OC-3) INTERFACE

Radio Name	Capacity STS-1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity Single Input Receiver (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	QUAD	Compact (CP)	Compact w/Space Diversity (CPDR)
4 GHz Frequency Band (4400 - 5000 MHz)											
MDR-8704s-52-15-(-)	1	15	\$25,300	\$38,325	\$32,400	\$47,700	\$48,700	\$49,500	\$57,500	\$22,925	\$30,025
MDR-8704s-52-29-(-)	1	29	\$31,250	\$44,275	\$37,950	\$59,200	\$60,200	\$61,000	\$69,000	\$23,325	
MDR-8704s-52-33-(-)	1	33	\$34,250	\$47,275	\$40,950	\$65,200	\$66,200	\$67,000	\$75,000		
MDR-8704s-155-15-(-)	3	15	\$27,300	\$41,325	\$35,400	\$51,700	\$52,700	\$53,500	\$61,500	\$24,925	\$33,025
MDR-8704s-155-29-(-)	3	29	\$33,250	\$47,275	\$40,950	\$63,200	\$64,200	\$65,000	\$73,000	\$25,325	
MDR-8704s-155-33-(-)	3	33	\$36,250	\$50,275	\$43,950	\$69,200	\$70,200	\$71,000	\$79,000		

- +33 dBm transmit power configurations include the 3EM19148AA fan assembly
- All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assembly
- Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity

MDR-8705u - 5.8 GHz UNLICENSED - SONET (OC-3) INTERFACE

Radio Name	Capacity STS-1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	QUAD	Compact (CP)	Compact w/Space Diversity (CPDR)
5.8 GHz Frequency Band (5725 - 5850 MHz)											
MDR-8705u-52-15-(-)	1	15	\$20,175	\$32,550	\$27,875	\$40,250	\$41,250	\$42,450	\$61,600	\$18,205	\$24,030
MDR-8705u-52-23-(-)	1	23	\$22,675	\$35,050	\$30,375	\$45,250	\$46,250	\$47,450	\$66,600	\$20,705	\$26,530
MDR-8705u-52-29-(-)	1	29	\$23,175	\$35,550	\$30,875	\$46,250	\$47,250	\$48,450	\$67,600	\$21,205	\$27,030
MDR-8705u-155-15-(-)	3	15	\$22,175	\$35,550	\$30,875	\$44,250	\$45,250	\$46,450	\$67,600	\$20,205	\$27,030
MDR-8705u-155-23-(-)	3	23	\$24,675	\$38,050	\$33,375	\$49,250	\$50,250	\$51,450	\$72,600	\$22,705	\$29,530
MDR-8705u-155-29-(-)	3	29	\$25,175	\$38,550	\$33,875	\$50,250	\$51,250	\$52,450	\$73,600	\$23,205	\$30,030

- Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity
- All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assembly

MDR-8706s - 6 GHz - SONET (OC-3) INTERFACE

Radio Name	Capacity STS-1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	QUAD	Compact (CP)	Compact w/Space Diversity (CPDR)
6 GHz Frequency Band (5850-7125 MHz)											
MDR-8706s-52-15-(-)	1	15	\$22,950	\$34,725	\$30,050	\$43,000	\$44,000	\$44,800	\$52,800	\$20,455	\$27,555
MDR-8706s-52-23-(-)	1	23	\$25,450	\$37,225	\$32,550	\$48,000	\$49,000	\$49,800	\$57,800	\$22,955	\$30,055
MDR-8706s-52-29-(-)	1	29	\$25,950	\$37,725	\$33,050	\$49,000	\$50,000	\$50,800	\$58,800	\$23,455	\$30,555
MDR-8706s-52-31-(-)	1	31	\$28,350	\$40,125	\$35,050	\$53,400	\$54,400	\$55,200	\$63,200	\$25,855	\$32,555
MDR-8706s-52-33-(-)	1	33	\$31,350	\$43,125	\$38,050	\$59,400	\$60,400	\$61,200	\$69,200		
MDR-8706s-155-15-(-)	3	15	\$24,950	\$37,725	\$33,050	\$47,000	\$48,000	\$48,800	\$56,800	\$22,455	\$30,555
MDR-8706s-155-23-(-)	3	23	\$27,450	\$40,225	\$35,550	\$52,000	\$53,000	\$53,800	\$61,800	\$24,955	\$33,055
MDR-8706s-155-29-(-)	3	29	\$27,950	\$40,725	\$36,050	\$53,000	\$54,000	\$54,800	\$62,800	\$25,455	\$33,555
MDR-8706s-155-31-(-)	3	31	\$30,350	\$43,125	\$38,050	\$57,400	\$58,400	\$59,200	\$67,200	\$27,855	\$35,555
MDR-8706s-155-33-(-)	3	33	\$33,350	\$46,125	\$41,050	\$63,400	\$64,400	\$65,200	\$73,200		

- Non-Compact +31 and +33 dBm transmit power configurations include the 3EM19148AA fan assembly
- All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assembly
- Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity

MDR-8708s - 8 GHz - SONET (OC-3) INTERFACE

Radio Name	Capacity STS-1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	QUAD	Compact (CP)	Compact w/Space Diversity (CPDR)
8 GHz Frequency Band (7125-8500 MHz)											
MDR-8708s-52-15-(-)	1	15	\$24,450	\$36,975	\$31,550	\$46,000	\$47,000	\$47,800	\$55,800	\$21,925	\$29,025
MDR-8708s-52-28-(-)	1	28	\$28,250	\$40,775	\$34,950	\$53,200	\$54,200	\$55,000	\$63,000	\$25,725	\$32,425
MDR-8708s-52-30-(-)	1	30	\$30,250	\$42,775	\$36,950	\$57,200	\$58,200	\$59,000	\$67,000	\$27,725	\$34,425
MDR-8708s-52-32-(-)	1	32	\$33,250	\$45,775	\$39,950	\$63,200	\$64,200	\$65,000	\$73,000		
MDR-8708s-155-15-(-)	3	15	\$26,450	\$39,975	\$34,550	\$50,000	\$51,000	\$51,800	\$59,800	\$23,925	\$32,025
MDR-8708s-155-28-(-)	3	28	\$30,250	\$43,775	\$37,950	\$57,200	\$58,200	\$59,000	\$67,000	\$27,725	\$35,425
MDR-8708s-155-30-(-)	3	30	\$32,250	\$45,775	\$39,950	\$61,200	\$62,200	\$63,000	\$71,000	\$29,725	\$37,425
MDR-8708s-155-32-(-)	3	32	\$35,250	\$48,775	\$42,950	\$67,200	\$68,200	\$69,000	\$77,000		

- Non-Compact +30 and +32 dBm transmit power configurations include the 3EM19148AA fan assembly
- All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assembly
- Compact +30 dBm transmit power configuration includes the 3EM11901AB external fan assembly. +28 dBm PA does not require the fan assembly for the Compact indoor shelf
- Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity

MDR-8711s - 11 GHz - SONET (OC-3) INTERFACE

Radio Name	Capacity STS-1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	QUAD	Compact (CP)	Compact w/Space Diversity (CPDR)
11 GHz Frequency Band (10700-11700 MHz)											
MDR-8711s-52-15(-)	1	15	\$23,250	\$35,775	\$30,275	\$43,150	\$44,150	\$44,800	\$53,800	\$20,755	\$28,750
MDR-8711s-52-23(-)	1	23	\$26,100	\$38,625	\$32,625	\$48,850	\$49,850	\$50,500	\$59,500	\$23,605	\$31,600
MDR-8711s-52-27(-)	1	27	\$28,150	\$40,675	\$34,675	\$52,550	\$53,550	\$54,200	\$63,200	\$25,255	\$33,650
MDR-8711s-52-29(-)	1	29	\$30,150	\$42,675	\$36,675	\$56,550	\$57,550	\$58,200	\$67,200	\$27,655	
MDR-8711s-155-15(-)	3	15	\$25,250	\$38,775	\$33,275	\$47,150	\$48,150	\$48,800	\$57,800	\$22,755	\$31,250
MDR-8711s-155-23(-)	3	23	\$28,100	\$41,625	\$35,625	\$52,850	\$53,850	\$54,500	\$63,500	\$25,605	\$34,100
MDR-8711s-155-27(-)	3	27	\$30,150	\$43,675	\$37,675	\$56,550	\$57,550	\$58,200	\$67,200	\$27,255	\$36,150
MDR-8711s-155-29(-)	3	29	\$32,150	\$45,675	\$39,675	\$60,550	\$61,550	\$62,200	\$71,200		

1. Non-Compact +29 dBm transmit power configurations include the 3EM19148AA fan assembly
2. All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assembly
3. Compact +29 dBm transmit power configuration includes the 3EM11901AB external fan assembly. +23 and +27 dBm PA does not require the fan assembly for the Compact indoor shelf
4. Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity

MDR-8602 - 2 GHz - NORTH AMERICAN (DS3) SIGNAL INTERFACE

Radio Name	Capacity DS3	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact (CP)
2 GHz Frequency Band (1755-1850 MHz) Federal NTIA							
MDR-8602-45-15(-)	1	15	\$20,425	\$31,900	\$38,650	\$39,150	\$18,400
MDR-8602-45-31(-)	1	30	\$26,825	\$38,300	\$51,050	\$51,550	\$24,800

1. Non-Compact +31 dBm transmit power configurations include the 3EM19148AA fan assembly
2. High power Compact is for indoor shelf only and includes the 3EM11901AB fan assembly

Radio Name	Capacity DS3	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact (CP)
2 GHz Frequency Band (2025-2285 MHz) Canadian							
MDR-8602-45-15(-)	1	15	\$20,425	\$31,900	\$38,650	\$39,150	\$18,400
MDR-8602-45-33(-)	1	33	\$26,825	\$38,300	\$51,050	\$51,550	\$24,800

1. Pricing based on conformance to ITU channel plans
2. Non-Compact +33 dBm transmit power configurations include the 3EM19148AA fan assembly
3. High power Compact is for indoor shelf only and includes the 3EM11901AB fan assembly

Radio Name	Capacity DS3	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact (CP)
2 GHz Frequency Band (2200-2290 MHz) Federal NTIA							
MDR-8602-45-15(-)	1	15	\$20,425	\$31,900	\$38,650	\$39,150	\$18,400
MDR-8602-45-33(-)	1	30	\$26,825	\$38,300	\$51,050	\$51,550	\$24,800

1. Non-Compact +33 dBm transmit power configurations include the 3EM14098AA fan assembly
2. High power Compact is for indoor shelf only and includes the 3EM11901AB fan assembly

MDR-8604 - 4 GHz - NORTH AMERICAN (DS3) SIGNAL INTERFACE

Radio Name	Capacity DS3	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity Single Input Receiver (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	QUAD	Compact (CP)	Compact w/Space Diversity (CPDR)
4 GHz Frequency Band (4400 - 5000 MHz) X=5 for 32 TCM or 6 for 64 QAM											
MDR-8604-45-15(-)	1	15	\$24,100	\$36,200	\$30,775	\$45,300	\$46,300	\$47,100	\$55,100	\$22,075	\$28,750
MDR-8604-45-29(-)	1	29	\$29,100	\$41,200	\$35,775	\$55,300	\$56,300	\$57,100	\$65,100	\$27,075	\$33,750
MDR-8604-45-33(-)	1	33	\$32,900	\$45,000	\$39,175	\$62,500	\$63,500	\$64,300	\$72,300		
MDR-8504-90-15(-)	2	15	\$25,100	\$37,700	\$32,275	\$47,300	\$48,300	\$49,100	\$57,100	\$23,075	\$30,250
MDR-8504-90-29(-)	2	29	\$30,100	\$42,700	\$37,275	\$57,300	\$58,300	\$59,100	\$67,100	\$28,075	\$35,250
MDR-8504-90-33(-)	2	33	\$33,900	\$46,500	\$40,675	\$64,500	\$65,500	\$66,300	\$74,300		
MDR-8604-135-15(-)	3	15	\$26,100	\$39,200	\$33,775	\$49,300	\$50,300	\$51,100	\$59,000	\$24,075	\$31,750
MDR-8604-135-29(-)	3	29	\$31,100	\$44,200	\$38,775	\$59,300	\$60,300	\$61,100	\$69,100	\$29,075	\$36,750
MDR-8604-135-33(-)	3	33	\$34,900	\$48,000	\$42,175	\$66,500	\$67,500	\$68,300	\$76,300		

1. Non-Compact +33 dBm transmit power configurations include the 3EM19148AA fan assembly
2. All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assembly

MDR-8605u - 5.8 GHz UNLICENSED - NORTH AMERICAN (DS3) SIGNAL INTERFACE

Radio Name	Capacity DS3	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Stby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	Compact (CP)	Compact w/Space Diversity (CPDR)
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5.8 GHz Frequency Band (5725 - 5850 MHz)

MDR-8605u-45-15(-)	1	15	\$18,825	\$30,275	\$37,550	\$38,550	\$39,750	\$17,325	\$23,725
MDR-8605u-45-23(-)	1	23	\$21,325	\$32,775	\$42,550	\$43,550	\$44,750	\$19,825	\$26,225
MDR-8605u-45-29(-)	1	29	\$21,825	\$33,275	\$43,550	\$44,550	\$45,750	\$20,725	\$26,725
MDR-8605u-135-15(-)	3	15	\$20,825	\$33,275	\$41,550	\$42,550	\$43,750	\$19,325	\$26,725
MDR-8605u-135-23(-)	3	23	\$23,325	\$35,775	\$46,550	\$47,550	\$48,750	\$21,825	\$29,225
MDR-8605u-135-29(-)	3	29	\$23,825	\$36,275	\$47,550	\$48,550	\$49,750	\$22,725	\$29,725

MDR-8606 - 6 GHz - NORTH AMERICAN (DS3) SIGNAL INTERFACE

Radio Name	Capacity DS3	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity Single Input Receiver (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	QUAD	Compact (CP)	Compact w/Space Diversity (CPDR)
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6 GHz Frequency Band (5850-7125 MHz)

MDR-8606-45-15(-)	1	15	\$21,600	\$32,450	\$28,275	\$40,300	\$41,300	\$42,100	\$50,100	\$19,575	\$27,250
MDR-8606-45-23(-)	1	23	\$24,100	\$34,950	\$30,775	\$45,300	\$46,300	\$47,100	\$55,100	\$22,075	\$29,750
MDR-8606-45-29(-)	1	29	\$24,600	\$35,450	\$31,275	\$46,300	\$47,300	\$48,100	\$56,100	\$22,575	\$30,250
MDR-8606-45-31(-)	1	31	\$27,000	\$37,850	\$33,275	\$50,700	\$51,700	\$52,500	\$60,500	\$24,975	\$32,250
MDR-8606-45-33(-)	1	33	\$30,000	\$40,850	\$36,275	\$56,700	\$57,700	\$58,500	\$66,500		
MDR-8606-135-15(-)	3	15	\$23,600	\$35,450	\$31,275	\$44,300	\$45,300	\$46,100	\$54,100	\$21,575	\$30,250
MDR-8606-135-23(-)	3	23	\$26,100	\$37,950	\$33,775	\$49,300	\$50,300	\$51,100	\$59,100	\$24,075	\$32,750
MDR-8606-135-29(-)	3	29	\$26,600	\$38,450	\$34,275	\$50,300	\$51,300	\$52,100	\$60,100	\$24,575	\$33,250
MDR-8606-135-31(-)	3	31	\$29,000	\$40,850	\$36,275	\$54,700	\$55,700	\$56,500	\$64,500	\$26,975	\$35,250
MDR-8606-135-33(-)	3	33	\$32,000	\$43,850	\$39,275	\$60,700	\$61,700	\$62,500	\$70,500		

- Pricing based on conformance to FCC Part 101 channel plans
- Non-Compact +31 and +33 dBm transmit power configurations include the 3EM19148AA fan assembly
- All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assembly
- Compact +31 dBm transmit power configuration includes the 3EM11901AB external fan tray assembly. +29 and +23 dBm PA do not require the fan tray for the Compact indoor shel
- Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity

MDR-8606 - 6 GHz - NORTH AMERICAN (DS3) SIGNAL INTERFACE BROADCAST AUXILIARY SERVICE (BAS)

Radio Name	Capacity DS3	Xmtr Output dBm	Hot- Standby Transmitter (HS-TX)	Hot-Stby Receiver (HS-RX)	Hot-Stby w/Space Diversity (HSSD-RX)	Hot Standby Duplex (HS-DX)	Hot Stby w/Space Diversity Duplex (HSSD-DX)
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6 GHz Frequency Band (6875-7125 MHz)

X = 5 for 32 TCM or 7 for 128 TCM

MDR-8606-45-15(-)	1	15	\$25,800	\$26,000	\$27,000	\$44,000	\$45,000
MDR-8606-45-23(-)	1	23	\$30,800			\$49,000	\$50,000
MDR-8606-45-29(-)	1	29	\$31,800			\$50,000	\$51,000
MDR-8606-45-31(-)	1	31	\$36,200			\$54,400	\$55,400
MDR-8606-45-33(-)	1	33	\$42,200	\$27,500	\$28,500	\$60,400	\$61,400
MDR-8506-90-15(-)	2	15	\$27,300			\$47,000	\$48,000
MDR-8506-90-23(-)	2	23	\$32,300			\$52,000	\$53,000
MDR-8506-90-29(-)	2	29	\$33,300			\$53,000	\$54,000
MDR-8506-90-31(-)	2	31	\$37,700			\$57,400	\$58,400
MDR-8506-90-33(-)	2	33	\$43,700			\$63,400	\$64,400

- Pricing for FCC Part 74 applications.
- +31 and +33 dBm transmit power configurations include the 3EM19148AA fan assembly

MDR-8608 - 7/8 GHz - NORTH AMERICAN (DS3) SIGNAL INTERFACE

Radio Name	Capacity DS3	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	QUAD	Compact (CP)	Compact w/Space Diversity (CPDR)
8 GHz Frequency Band (7125-8500 MHz)											
MDR-8608-45-15(-)	1	15	\$23,100	\$34,700	\$29,775	\$43,300	\$44,300	\$45,100	\$53,100	\$21,075	\$27,750
MDR-8608-45-28(-)	1	28	\$26,900	\$38,500	\$33,175	\$50,500	\$51,500	\$52,300	\$60,300	\$24,875	\$31,150
MDR-8608-45-30(-)	1	30	\$28,900	\$40,500	\$35,175	\$54,500	\$55,500	\$56,300	\$64,300	\$26,875	\$33,150
MDR-8608-45-32(-)	1	32	\$31,900	\$43,500	\$38,175	\$60,500	\$61,500	\$62,300	\$70,300		
MDR-8508-90-15(-)	2	15	\$24,100	\$36,200	\$31,275	\$45,300	\$46,300	\$47,100	\$55,100	\$22,075	\$29,250
MDR-8508-90-28(-)	2	28	\$27,900	\$40,000	\$34,675	\$52,500	\$53,500	\$54,300	\$62,300	\$25,875	\$32,650
MDR-8508-90-30(-)	2	30	\$29,900	\$42,000	\$36,675	\$56,500	\$57,500	\$58,300	\$66,300	\$27,875	\$34,650
MDR-8508-90-32(-)	2	32	\$32,900	\$45,000	\$39,675	\$62,500	\$63,500	\$64,300	\$72,300		
MDR-8608-135-15(-)	3	15	\$25,100	\$37,700	\$32,775	\$47,300	\$48,300	\$49,100	\$57,100	\$23,075	\$30,750
MDR-8608-135-28(-)	3	28	\$28,900	\$41,500	\$36,175	\$54,500	\$55,500	\$56,300	\$64,300	\$26,875	\$34,150
MDR-8608-135-30(-)	3	30	\$30,900	\$43,500	\$38,175	\$58,500	\$59,500	\$60,300	\$68,300	\$28,875	\$36,150
MDR-8608-135-32(-)	3	32	\$33,900	\$46,500	\$41,175	\$64,500	\$65,500	\$66,300	\$74,300		

1. Non-Compact +30 and +32 dBm transmit power configurations include the 3EM19148AA fan assembly
2. Compact +30 dBm transmit power configuration includes the 3EM11901AB external fan tray assembly. +28 dBm PA does not require the fan tray for the Compact indoor shel
3. All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assemb
4. Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity

MDR-8611 - 11 GHz - NORTH AMERICAN (DS3) SIGNAL INTERFACE

Radio Name	Capacity DS3	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	QUAD	Compact (CP)	Compact w/Space Diversity (CPDR)
11 GHz Frequency Band (10700-11700 MHz)											
MDR-8611-45-15(-)	1	15	\$21,900	\$33,500	\$28,500	\$40,450	\$41,450	\$42,100	\$51,100	\$19,875	\$26,550
MDR-8611-45-23(-)	1	23	\$24,750	\$36,350	\$31,350	\$46,150	\$47,150	\$47,800	\$56,800	\$22,725	\$29,400
MDR-8611-45-27(-)	1	27	\$26,800	\$38,400	\$33,400	\$49,850	\$50,850	\$51,500	\$60,500	\$24,775	\$31,450
MDR-8611-45-29(-)	1	29	\$28,800	\$40,400	\$35,400	\$53,850	\$54,850	\$55,500	\$64,500		
MDR-8611-135-15(-)	3	15	\$23,900	\$36,500	\$31,500	\$44,450	\$45,450	\$46,100	\$55,100	\$21,875	\$29,150
MDR-8611-135-23(-)	3	23	\$26,750	\$39,350	\$34,350	\$50,150	\$51,150	\$51,800	\$60,800	\$24,725	\$32,000
MDR-8611-135-27(-)	3	27	\$28,800	\$41,400	\$36,400	\$53,850	\$54,850	\$55,500	\$64,500	\$26,775	\$34,050
MDR-8611-135-29(-)	3	29	\$30,800	\$43,400	\$38,400	\$57,850	\$58,850	\$59,500	\$68,500		

1. Pricing based on conformance to FCC Part 101 channel plans
2. Non-Compact +29 dBm transmit power configurations include the 3EM19148AA fan assembly
3. Compact +29 dBm transmit power configuration includes the 3EM11901AB external fan tray assembly. +27 and +23 dBm PA do not require the fan tray for the Compact indoor shel
4. All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assemb
5. Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity

MDR-8X02 - 2 GHz - NORTH AMERICAN (DS1) SIGNAL INTERFACE

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact (CP)
2 GHz Frequency Band (1755-1850 MHz) Federal NTIA							
MDR-8502-4-15(-)	4	15	\$15,250	\$22,975	\$27,300	\$27,800	\$12,850
MDR-8502-4-31(-)	4	31	\$21,650	\$29,375	\$39,700	\$40,200	\$19,250
MDR-8502-8-15(-)	8	15	\$18,150	\$27,325	\$33,100	\$33,600	\$16,125
MDR-8502-8-31(-)	8	31	\$24,550	\$33,725	\$45,500	\$46,000	\$22,525
MDR-8502-16-15(-)	16	15	\$21,750	\$32,725	\$40,300	\$40,800	\$19,725
MDR-8502-16-31(-)	16	31	\$28,150	\$39,125	\$52,700	\$53,200	\$26,125
MDR-8702-32-15(-)	32	15	\$23,075	\$34,050	\$41,650	\$42,150	
MDR-8702-32-31(-)	32	31	\$29,475	\$40,450	\$54,050	\$54,550	

1. Non-Compact +31 dBm transmit power configurations include the 3EM19148AA fan assembly
2. High power Compact is for indoor shelf only and includes the 3EM11901AB fan assembly

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact (CP)
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2 GHz Frequency Band (1850-1990 MHz) PCS

MDR-8702-4-15(-)	4	15	\$15,250	\$22,975	\$27,300	\$27,800	\$12,850
MDR-8702-4-31(-)	4	31	\$21,650	\$29,375	\$39,700	\$40,200	\$19,250

1. Non-Compact +31 dBm transmit power configurations include the 3EM19148AA fan assembly
2. High power Compact is for indoor shelf only and includes the 3EM11901AB fan assembly

MDR-8X02 - 2 GHz - NORTH AMERICAN (DS1) SIGNAL INTERFACE (cont)

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact (CP)
2 GHz Frequency Band (2025-2285 MHz) (Canadian Band)							
MDR-8502-4-15(-)	4	15	\$15,250	\$22,975	\$27,300	\$27,800	\$12,850
MDR-8502-4-33(-)	4	33	\$21,650	\$29,375	\$39,700	\$40,200	
MDR-8502-8-15(-)	8	15	\$18,150	\$27,325	\$33,100	\$33,600	\$16,125
MDR-8502-8-33(-)	8	33	\$24,550	\$33,725	\$45,500	\$46,000	
MDR-8502-16-15(-)	16	15	\$21,750	\$32,725	\$40,300	\$40,800	\$19,725
MDR-8502-16-33(-)	16	33	\$28,150	\$39,125	\$52,700	\$53,200	
MDR-8702-32-15(-)	32	15	\$23,075	\$34,050	\$41,650	\$42,150	
MDR-8702-32-33(-)	32	33	\$29,475	\$40,450	\$54,050	\$54,550	

- Pricing based on conformance to ITU channel plans
- Non-Compact +33 dBm transmit power configurations include the 3EM19148AA fan assembly

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact (CP)
2 GHz Frequency Band (2200 - 2290 MHz) Federal NTIA							
MDR-8502-4-15(-)	4	15	\$15,250	\$22,975	\$27,300	\$27,800	\$12,850
MDR-8502-4-33(-)	4	33	\$21,650	\$29,375	\$39,700	\$40,200	
MDR-8502-8-15(-)	8	15	\$18,150	\$27,325	\$33,100	\$33,600	\$16,125
MDR-8502-8-33(-)	8	33	\$24,550	\$33,725	\$45,500	\$46,000	
MDR-8502-16-15(-)	16	15	\$21,750	\$32,725	\$40,300	\$40,800	\$19,725
MDR-8502-16-33(-)	16	33	\$28,150	\$39,125	\$52,700	\$53,200	
MDR-8702-32-15(-)	32	15	\$23,075	\$34,050	\$41,650	\$42,150	
MDR-8702-32-33(-)	32	33	\$29,475	\$40,450	\$54,050	\$54,550	

- Non-Compact +33 dBm transmit power configurations include the 3EM19148AA fan assembly

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)
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2 GHz Frequency Band (2305-2360 MHz) WCS X = 5 for 32 TCM or 7 for 128 TCM

MDR-8X02-4-14(-)	4	14	\$15,250	\$22,975	\$27,300	\$27,800
MDR-8X02-4-30(-)	4	30	\$21,650	\$29,375	\$39,700	\$40,200
MDR-8X02-8-14(-)	8	14	\$18,150	\$27,325	\$33,100	\$33,600
MDR-8X02-8-30(-)	8	30	\$24,550	\$33,725	\$45,500	\$46,000
MDR-8702-16-14(-)	16	14	\$21,750	\$32,725	\$40,300	\$40,800
MDR-8702-16-30(-)	16	30	\$28,150	\$39,125	\$52,700	\$53,200

- Non-Compact +30 dBm transmit power configurations include the 3EM19148AA fan assembly

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)
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2 GHz Frequency Band (2400-2483.5 MHz) Part 15 Unlicensed X = 5 for 32 TCM or 7 for 128 TCM

MDR-8X02-4-14(-)	4	14	\$15,250	\$22,975	\$27,300	\$27,800
MDR-8X02-4-30(-)	4	30	\$21,650	\$29,375	\$39,700	\$40,200
MDR-8X02-8-14(-)	8	14	\$18,150	\$27,325	\$33,100	\$33,600
MDR-8X02-8-30(-)	8	30	\$24,550	\$33,725	\$45,500	\$46,000
MDR-8702-16-14(-)	16	14	\$21,750	\$32,725	\$40,300	\$40,800
MDR-8702-16-30(-)	16	30	\$28,150	\$39,125	\$52,700	\$53,200

- Non-Compact +30 dBm transmit power configurations include the 3EM19148AA fan assembly

MDR-8X02 - 2 GHz - NORTH AMERICAN (DS1) SIGNAL INTERFACE (cont)

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)
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2 GHz Frequency Band (2450-2483.5 MHz) Part 101

X = 5 for 32 TCM or 7 for 128 TCM

MDR-8X02-4-14(-)	4	14	\$15,250	\$22,975	\$27,300	\$27,800
MDR-8X02-4-31(-)	4	31	\$21,650	\$29,375	\$39,700	\$40,200
MDR-8702-8-14(-)	8	14	\$18,150	\$27,325	\$33,100	\$33,600
MDR-8702-8-31(-)	8	31	\$24,550	\$33,725	\$45,500	\$46,000

1. Non-Compact +31 dBm transmit power configurations include the 3EM19148AA fan assembly

MDR-8504 - 4 GHz - NORTH AMERICAN (DS1) SIGNAL INTERFACE

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	Compact (CP)
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4 GHz Frequency Band (4400-5000 MHz) Federal NTIA

MDR-8504-4-15(-)	4	15	\$18,800	\$28,400	\$34,950	\$35,450	\$36,650	\$15,900
MDR-8504-4-29(-)	4	29	\$23,800	\$33,400	\$44,950	\$45,450	\$46,650	\$20,900
MDR-8504-4-33(-)	4	33	\$27,600	\$37,200	\$52,150	\$52,650	\$53,850	
MDR-8504-8-15(-)	8	15	\$21,700	\$32,750	\$40,750	\$41,250	\$42,450	\$18,800
MDR-8504-8-29(-)	8	29	\$26,700	\$37,750	\$50,750	\$51,250	\$52,450	\$23,800
MDR-8504-8-33(-)	8	33	\$30,500	\$41,550	\$57,950	\$58,450	\$59,650	
MDR-8504-16-15(-)	16	15	\$25,300	\$38,150	\$47,950	\$48,450	\$49,650	\$22,400
MDR-8504-16-29(-)	16	29	\$30,300	\$43,150	\$57,950	\$58,450	\$59,650	\$27,400
MDR-8504-16-33(-)	16	33	\$34,100	\$46,950	\$65,150	\$65,650	\$66,850	
MDR-8704-32-15(-)	32	15	\$26,500	\$39,350	\$50,600	\$51,100	\$52,300	
MDR-8704-32-29(-)	32	29	\$31,500	\$44,350	\$60,600	\$61,100	\$62,300	
MDR-8704-32-33(-)	32	33	\$35,300	\$48,150	\$67,800	\$68,300	\$69,500	

1. Non-Compact +33 dBm transmit power configurations include the 3EM19148AA fan assembly

MDR-8505u - 5.8 GHz - UNLICENSED - NORTH AMERICAN (DS1) SIGNAL INTERFACE

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	Compact (CP)	CommLite (CL)
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5.8 GHz Frequency Band (5725 - 5850 MHz)

MDR-8505u-4-15(-)	4	15	\$13,650	\$21,350	\$26,200	\$27,200	\$28,400		\$11,250
MDR-8505u-4-23(-)	4	25	\$16,150	\$23,850	\$31,200	\$32,200	\$33,400		\$13,750
MDR-8505u-4-29(-)	4	30	\$16,650	\$24,350	\$32,200	\$32,200	\$33,400		\$14,650
MDR-8505u-8-15(-)	8	15	\$16,550	\$25,700	\$32,000	\$33,000	\$34,200		\$14,150
MDR-8505u-8-23(-)	8	25	\$19,050	\$28,200	\$37,000	\$38,000	\$39,200		\$16,650
MDR-8505u-8-29(-)	8	30	\$19,550	\$28,700	\$38,000	\$39,000	\$40,200		\$17,550
3EM16579AA	8	25	5730 / 5845 MHz						\$12,000
3EM16579AB	8	25	5845 / 5730 MHz						\$12,000
MDR-8505u-16-15(-)	16	15	\$20,150	\$31,100	\$39,200	\$40,200	\$41,400		\$17,750
MDR-8505u-16-23(-)	16	25	\$22,650	\$33,600	\$44,200	\$45,200	\$46,400		\$20,250
MDR-8505u-16-29(-)	16	30	\$23,150	\$34,100	\$45,200	\$46,200	\$47,400		\$21,150
MDR-8705u-32-15(-)	32	15	\$21,475	\$32,425	\$40,850	\$41,850	\$43,050		
MDR-8705u-32-23(-)	32	25	\$23,975	\$34,925	\$45,850	\$46,850	\$48,050		
MDR-8705u-32-29(-)	32	30	\$24,475	\$35,425	\$46,850	\$47,850	\$49,050		

1. Compact +29 dBm transmit power does not require fan tray assembly

MDR-8X06 - 6 GHz - NORTH AMERICAN (DS1) SIGNAL INTERFACE

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	Compact (CP)
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6 GHz Frequency Band (5850-7125 MHz)

X = 5 for 32 TCM or 7 for 128 TCM

MDR-8X06-4-15(-)	4	15	\$15,400	\$23,100	\$27,950	\$28,450	\$29,650	\$13,000
MDR-8X06-4-23(-)	4	23	\$17,900	\$25,600	\$32,950	\$33,450	\$34,650	\$15,500
MDR-8X06-4-29(-)	4	29	\$18,400	\$26,100	\$33,950	\$34,450	\$35,650	\$16,000
MDR-8X06-4-31(-)	4	31	\$20,800	\$28,500	\$38,350	\$38,850	\$40,050	\$18,400
MDR-8X06-4-33(-)	4	33	\$23,800	\$31,500	\$44,350	\$44,850	\$46,050	
MDR-8X06-8-15(-)	8	15	\$18,300	\$27,450	\$33,750	\$34,250	\$35,450	\$15,900
MDR-8X06-8-23(-)	8	23	\$20,800	\$29,950	\$38,750	\$39,250	\$40,450	\$18,400
MDR-8X06-8-29(-)	8	29	\$21,300	\$30,450	\$39,750	\$40,250	\$41,450	\$18,900
MDR-8X06-8-31(-)	8	31	\$23,700	\$32,850	\$44,150	\$44,650	\$45,850	\$21,300
MDR-8X06-8-33(-)	8	33	\$26,700	\$35,850	\$50,150	\$50,650	\$51,850	
MDR-8X06-16-15(-)	16	15	\$21,900	\$32,850	\$40,950	\$41,450	\$42,650	\$19,500
MDR-8X06-16-23(-)	16	23	\$24,400	\$35,350	\$45,950	\$46,450	\$47,650	\$22,000
MDR-8X06-16-29(-)	16	29	\$24,900	\$35,850	\$46,950	\$47,450	\$48,650	\$22,500
MDR-8X06-16-31(-)	16	31	\$27,300	\$38,250	\$51,350	\$51,850	\$53,050	\$24,900
MDR-8X06-16-33(-)	16	33	\$30,300	\$41,250	\$57,350	\$57,850	\$59,050	
MDR-8706-32-15(-)	32	15	\$22,200	\$33,150	\$41,600	\$42,100	\$43,300	
MDR-8706-32-23(-)	32	23	\$24,700	\$35,650	\$46,600	\$47,100	\$48,300	
MDR-8706-32-29(-)	32	29	\$25,200	\$36,150	\$47,600	\$48,100	\$49,300	
MDR-8706-32-31(-)	32	31	\$27,600	\$38,550	\$52,000	\$52,500	\$53,700	
MDR-8706-32-33(-)	32	33	\$30,600	\$41,550	\$58,000	\$58,500	\$59,700	

- Pricing based on conformance to FCC Part 101 channel plans
- Non-Compact +31 and +33 dBm transmit power configurations include the 3EM19148AA fan assembly
- Compact +31 dBm transmit power configuration includes the 3EM11901AB external fan tray assembly. +29 and +23 dBm PA do not require the fan tray for the Compact indoor shelf
- Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity

MDR-8X08 - 7/8 GHz - NORTH AMERICAN (DS1) SIGNAL INTERFACE

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	Compact (CP)
7/8 GHz Frequency Band (7125-8500 MHz)								
MDR-8508-4-15(-)	4	15	\$17,800	\$26,900	\$32,950	\$33,450	\$34,650	\$15,400
MDR-8508-4-28(-)	4	28	\$21,600	\$30,700	\$40,150	\$40,650	\$41,850	\$18,800
MDR-8508-4-30(-)	4	30	\$23,600	\$32,700	\$44,150	\$44,650	\$45,850	\$21,200
MDR-8508-4-32(-)	4	32	\$26,600	\$35,700	\$50,150	\$50,650	\$51,850	
MDR-8508-8-15(-)	8	15	\$20,700	\$31,250	\$38,750	\$39,250	\$40,450	\$18,300
MDR-8508-8-28(-)	8	28	\$24,500	\$35,050	\$45,950	\$46,450	\$47,650	\$21,700
MDR-8508-8-30(-)	8	30	\$26,500	\$37,050	\$49,950	\$50,450	\$51,650	\$24,100
MDR-8508-8-32(-)	8	32	\$29,500	\$40,050	\$55,950	\$56,450	\$57,650	
MDR-8508-16-15(-)	16	15	\$24,300	\$36,650	\$45,950	\$46,450	\$47,650	\$21,900
MDR-8508-16-28(-)	16	28	\$28,100	\$40,450	\$53,150	\$53,650	\$54,850	\$25,300
MDR-8508-16-30(-)	16	30	\$30,100	\$42,450	\$57,150	\$57,650	\$58,850	\$27,700
MDR-8508-16-32(-)	16	32	\$33,100	\$45,450	\$63,150	\$63,650	\$64,850	
MDR-8708-32-15(-)	32	15	\$25,500	\$37,850	\$48,600	\$49,100	\$50,300	
MDR-8708-32-28(-)	32	28	\$29,300	\$41,650	\$55,800	\$56,300	\$57,500	
MDR-8708-32-30(-)	32	30	\$31,300	\$43,650	\$59,800	\$60,300	\$61,500	
MDR-8708-32-32(-)	32	32	\$34,300	\$46,650	\$65,800	\$66,300	\$67,500	

1. Non-Compact +30 and +32 dBm transmit power configurations include the 3EM19148AA fan assembly
2. Compact +30 dBm transmit power configuration includes the 3EM11901AB external fan tray assembly. +28 dBm PA does not require the fan tray for the Compact indoor shel
3. Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity

MDR-8X10/11 - 10/11 GHz - NORTH AMERICAN (DS1) SIGNAL INTERFACE

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD)	Compact (Cp)
10/11 GHz Frequency Band (10450-11700 MHz) X = 5 for 32 TCM or 7 for 128 TCM								
MDR-8X10-4-15(-)	4	15	\$15,150	\$22,825	\$27,450	\$27,950	\$28,950	\$12,750
MDR-8X10-4-23(-)	4	23	\$18,000	\$25,675	\$33,150	\$33,650	\$34,650	\$15,600
MDR-8X10-4-27(-)	4	27	\$20,050	\$27,725	\$36,850	\$37,350	\$38,350	\$17,250
MDR-8X10-4-29(-)	4	29	\$22,050	\$29,725	\$40,850	\$41,350	\$42,350	\$19,650
MDR-8X10-8-15(-)	8	15	\$18,050	\$27,175	\$33,250	\$33,750	\$34,750	\$15,650
MDR-8X10-8-23(-)	8	23	\$20,900	\$30,025	\$38,950	\$39,450	\$40,450	\$18,500
MDR-8X10-8-27(-)	8	27	\$22,950	\$32,075	\$42,650	\$43,150	\$44,150	\$20,150
MDR-8X10-8-29(-)	8	29	\$24,950	\$34,075	\$46,650	\$47,150	\$48,150	\$22,550
MDR-8X10-16-15(-)	16	15	\$21,650	\$32,575	\$40,450	\$40,950	\$41,950	\$19,250
MDR-8X10-16-23(-)	16	23	\$24,500	\$35,425	\$46,150	\$46,650	\$47,650	\$22,100
MDR-8X10-16-27(-)	16	27	\$26,550	\$37,475	\$49,850	\$50,350	\$51,350	\$23,750
MDR-8X10-16-29(-)	16	29	\$28,550	\$39,475	\$53,850	\$54,350	\$55,350	\$26,150
MDR-8711-32-15(-)	32	15	\$21,950	\$32,875	\$41,750	\$42,250	\$43,250	
MDR-8711-32-23(-)	32	23	\$24,800	\$35,725	\$47,450	\$47,950	\$48,950	
MDR-8711-32-27(-)	32	27	\$26,850	\$37,775	\$51,150	\$51,650	\$52,650	
MDR-8711-32-29(-)	32	29	\$28,850	\$39,775	\$55,150	\$55,650	\$56,650	

1. Pricing based on conformance to FCC Part 101 channel plans
2. Non-Compact +29 dBm transmit power configurations include the 3EM19148AA fan assembly
3. Compact +29 dBm transmit power configuration includes the 3EM11901AB external fan tray assembly. +27 and +23 dBm PA do not require the fan tray for the Compact indoor shel
4. Ring applications are addressed using two shelves of either non-standby or non-standby with space diversit

Ethernet Radios

MDR-8702E - 2 GHz - 50 Mbps DATA CAPACITY ETHERNET INTERFACE WITH UP TO 16 DS1s* (Includes option key 695-5647-022. For up to 32 DS1s, replace with option key 695-5647-023)

*Optical interface requires addition of appropriate SFP module

Radio Name	Capacity STS -1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact*
2 GHz Frequency Band (1755 - 1850 MHz) Federal NTIA							
MDR-8702E-50-15(-)	1	15	\$18,925	\$29,400	\$36,150	\$36,650	\$16,900
MDR-8702E-50-31(-)	1	30	\$25,325	\$35,800	\$49,050	\$49,550	

1. Non-Compact +31 dBm transmit power configurations include the 3EM19148AA fan assembly
- *Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

Radio Name	Capacity STS -1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact*
2 GHz Frequency Band (2025 - 2285 MHz) Canadian							
MDR-8702E-50-15(-)	1	15	\$18,925	\$29,400	\$36,150	\$36,650	\$16,900
MDR-8702E-50-33(-)	1	33	\$25,325	\$35,800	\$49,050	\$49,550	

1. Pricing based on conformance to ITU channel plans
 2. Non-Compact +33 dBm transmit power configurations include the 3EM19148AA fan assembly
- *Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

Radio Name	Capacity STS -1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact*
2 GHz Frequency Band (2200 - 2290 MHz) Federal NTIA							
MDR-8702E-50-15(-)	1	15	\$18,925	\$29,400	\$36,150	\$36,650	\$16,900
MDR-8702E-50-33(-)	1	30	\$25,325	\$35,800	\$49,050	\$49,550	

1. Non-Compact +33 dBm transmit power configurations include the 3EM19148AA fan assembly
- Alcatel configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

MDR-8704E - 4 GHz - 150 & 50 Mbps DATA CAPACITY ETHERNET INTERFACE WITH UP TO 16 DS1s* (Includes option key 695-5647-022. For up to 32 DS1s, replace with option key 695-5647-023)

*Optical interface requires addition of appropriate SFP module

Radio Name	Capacity STS -1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity Single Input Receiver (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD) or Dual Channel (DC)	QUAD	Compact* (CP)	Compact* w/Space Diversity (CPDR)
4 GHz Frequency Band (4400 - 5000 MHz)											
MDR-8704E-50-15(-)	1	15	\$22,520	\$32,855	\$28,000	\$42,130	\$43,130	\$43,930	\$51,930	\$20,971	\$27,313
MDR-8704E-50-29(-)	1	29	\$27,520	\$37,855	\$33,000	\$47,130	\$48,130	\$48,930	\$56,930		
MDR-8704E-50-33(-)	1	33	\$31,320	\$41,805	\$35,649	\$59,630	\$60,630	\$61,430	\$69,430		
MDR-8704E-150-15(-)	3	15	\$24,570	\$36,155	\$32,670	\$46,530	\$47,530	\$48,330	\$56,330	\$22,433	\$29,723
MDR-8704E-150-29(-)	3	29	\$29,570	\$41,155	\$37,670	\$51,530	\$52,530	\$53,330	\$61,330		
MDR-8704E-150-33(-)	3	33	\$33,520	\$45,105	\$41,220	\$64,030	\$65,030	\$65,830	\$73,830		

1. Non-Compact +33 dBm transmit power configurations include the 3EM19148AA fan assembly
2. All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assembly
- *Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

MDR-8705E - 5.8 GHz UNLICENSED - 150 & 50 Mbps DATA CAPACITY ETHERNET INTERFACE WITH UP TO 16 DS1s*

(Includes option key 695-5647-022. For up to 32 DS1s, replace with option key 695-5647-023)

*Optical interface requires addition of appropriate SFP module

Radio Name	Capacity STS -1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD) or Dual Channel (DC)	QUAD	Compact* (CP)	Compact* w/Space Diversity (CPDR)
5.8 GHz Frequency Band (5725 - 5850 MHz)											
MDR-8705Eu-50-15(-)	1	15	\$19,505	\$28,975	\$27,250	\$36,900	\$37,900	\$38,700	\$37,350	\$16,550	\$23,000
MDR-8705Eu-50-23(-)	1	23	\$21,555	\$31,475	\$29,900	\$41,900	\$42,900	\$43,700	\$42,350	\$18,800	\$25,500
MDR-8705Eu-50-29(-)	1	29	\$22,000	\$33,525	\$30,280	\$42,900	\$43,900	\$44,700	\$43,350	\$19,800	\$26,000
MDR-8705Eu-150-15(-)	3	15	\$20,705	\$31,275	\$28,805	\$40,550	\$41,550	\$42,350	\$60,000	\$18,460	\$26,160
MDR-8705Eu-150-23(-)	3	23	\$23,205	\$33,775	\$31,305	\$45,550	\$46,550	\$47,350	\$65,000	\$20,960	\$28,660
MDR-8705Eu-150-29(-)	3	29	\$23,695	\$34,275	\$31,805	\$46,550	\$47,550	\$48,350	\$66,000	\$21,460	\$29,160

1. Compact +29 dBm transmit power does not require fan tray assembly
2. All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assembly
- *Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

MDR-8706E - 6 GHz - 150 & 50 Mbps DATA CAPACITY ETHERNET INTERFACE WITH UP TO 16 DS1s*

(Includes option key 695-5647-022. For up to 32 DS1s, replace with option key 695-5647-023)

*Optical interface requires addition of appropriate SFP module

Radio Name	Capacity STS -1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD) or Dual Channel (DC)	QUAD	Compact* (CP)	Compact* w/Space Diversity (CPDR)
6 GHz Frequency Band (5850-7125 MHz)											
MDR-8706E-50-15(-)	1	15	\$20,255	\$29,725	\$25,675	\$37,900	\$38,900	\$39,700	\$47,700	\$18,010	\$24,610
MDR-8706E-50-23(-)	1	23	\$22,755	\$32,225	\$28,225	\$42,900	\$43,900	\$44,700	\$52,700	\$20,510	\$27,110
MDR-8706E-50-29(-)	1	29	\$23,255	\$33,725	\$29,725	\$43,900	\$44,900	\$45,700	\$53,700	\$21,010	\$27,610
MDR-8706E-50-31(-)	1	31	\$25,655	\$35,125	\$31,125	\$48,300	\$49,300	\$50,100	\$58,100	\$23,410	\$30,010
MDR-8706E-50-33(-)	1	33	\$28,255	\$37,725	\$33,725	\$53,900	\$54,900	\$55,700	\$63,700		
MDR-8706E-150-15(-)	3	15	\$22,455	\$33,025	\$30,555	\$42,300	\$43,300	\$44,100	\$52,100	\$20,210	\$27,910
MDR-8706E-150-23(-)	3	23	\$24,955	\$35,525	\$33,055	\$47,300	\$48,300	\$49,100	\$57,100	\$22,710	\$30,410
MDR-8706E-150-29(-)	3	29	\$25,445	\$36,025	\$33,555	\$48,300	\$49,300	\$50,100	\$58,100	\$23,210	\$30,910
MDR-8706E-150-31(-)	3	31	\$27,455	\$38,025	\$35,555	\$52,700	\$53,700	\$54,500	\$62,500	\$25,610	\$33,310
MDR-8706E-150-33(-)	3	33	\$30,855	\$41,425	\$38,555	\$58,300	\$59,300	\$60,100	\$68,100		

1. Pricing based on conformance to FCC Part 101 channel plans
2. Non-Compact +31 and +33 dBm transmit power configurations include the 3EM19148AA fan assembly
3. Compact +31 dBm transmit power configuration includes the 3EM11901AB external fan tray assembly. +29 dBm does not require the fan tray for the Compact indoor shelf
4. All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assembly
5. Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity
- *Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

MDR-8708E - 8 GHz - 150 & 50 Mbps DATA CAPACITY ETHERNET INTERFACE WITH UP TO 16 DS1s*
(Includes option key 695-5647-022. For up to 32 DS1s, replace with option key 695-5647-023)

*Optical interface requires addition of appropriate SFP module

Radio Name	Capacity STS -1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD) or Dual Channel (DC)	QUAD	Compact* (CP)	Compact* w/Space Diversity (CPDR)
8 GHz Frequency Band (7125-8500 MHz)											
MDR-8708E-50-15-(-)	1	15	\$21,445	\$32,675	\$27,675	\$41,600	\$42,600	\$43,400	\$51,400	\$20,021	\$26,363
MDR-8708E-50-28-(-)	1	28	\$25,405	\$36,475	\$31,475	\$48,800	\$49,800	\$50,600	\$58,600	\$23,631	\$29,593
MDR-8708E-50-30-(-)	1	30	\$27,405	\$38,475	\$33,475	\$52,800	\$53,800	\$54,600	\$62,600	\$25,531	\$31,493
MDR-8708E-50-32-(-)	1	32	\$30,405	\$41,475	\$36,475	\$58,800	\$59,800	\$60,600	\$68,600		
MDR-8708E-150-15-(-)	3	15	\$23,805	\$35,975	\$31,905	\$46,000	\$47,000	\$47,800	\$55,800	\$21,533	\$28,823
MDR-8708E-150-28-(-)	3	28	\$27,605	\$39,775	\$35,305	\$53,200	\$54,200	\$55,000	\$63,000	\$24,953	\$31,883
MDR-8708E-150-30-(-)	3	30	\$29,605	\$41,775	\$37,305	\$57,200	\$58,200	\$59,000	\$67,000	\$26,753	\$33,683
MDR-8708E-150-32-(-)	3	32	\$32,605	\$44,775	\$40,305	\$63,200	\$64,200	\$65,000	\$73,000		

1. Non-Compact +30 and +32 dBm transmit power configurations include the 3EM19148AA fan assembly
 2. Compact +30 dBm transmit power configuration includes the 3EM11901AB external fan tray assembly. +28 dBm PA does not require the fan tray for the Compact indoor shel
 3. All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assemb
 4. Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity
- *Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

MDR-8711E - 11 GHz - 150 & 50 Mbps DATA CAPACITY ETHERNET INTERFACE WITH UP TO 16 DS1s*
(Includes option key 695-5647-022. For up to 32 DS1s, replace with option key 695-5647-023)

*Optical interface requires addition of appropriate SFP module

Radio Name	Capacity STS -1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Non-Stby w/Space Diversity, Dual Input Receiver (NSDR)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD) or Dual Channel (DC)	QUAD	Compact* (CP)	Compact* w/Space Diversity (CPDR)
11 GHz Frequency Band (10700-11700 MHz)											
MDR-8711E-50-15-(-)	1	15	\$20,252	\$30,760	\$25,760	\$38,035	\$39,035	\$39,685	\$48,685	\$18,881	\$24,881
MDR-8711E-50-23-(-)	1	23	\$23,375	\$33,610	\$28,375	\$43,735	\$44,735	\$45,385	\$54,385	\$21,589	\$27,589
MDR-8711E-50-27-(-)	1	27	\$25,425	\$35,660	\$30,425	\$47,435	\$48,435	\$49,085	\$58,085	\$23,536	\$29,536
MDR-8711E-50-29-(-)	1	29	\$27,425	\$37,660	\$32,425	\$51,435	\$52,435	\$53,085	\$62,085	\$25,436	
MDR-8711E-150-15-(-)	3	15	\$22,725	\$34,060	\$29,060	\$42,435	\$43,435	\$44,085	\$53,085	\$20,480	\$26,480
MDR-8711E-150-23-(-)	3	23	\$25,575	\$36,910	\$31,910	\$48,135	\$49,135	\$49,785	\$58,785	\$23,045	\$30,045
MDR-8711E-150-27-(-)	3	27	\$27,625	\$38,960	\$33,960	\$51,835	\$52,835	\$53,485	\$62,485	\$24,530	\$31,530
MDR-8711E-150-29-(-)	3	29	\$29,625	\$40,960	\$35,960	\$55,835	\$56,835	\$57,485	\$66,485	\$26,690	

1. Pricing based on conformance to FCC Part 101 channel plans
 2. Non-Compact +29 dBm transmit power configurations include the 3EM19148AA fan assembly
 3. Compact +29 dBm transmit power configuration includes the 3EM11901AB external fan tray assembly. +27 and +23 dBm PA do not require the fan tray for the Compact indoor shel
 4. All configurations that use Dual Receiver modules (including all quad diversity configurations) include the 3EM19148AA fan assemb
 5. Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity
- *Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

MDR-8X02E - 2 GHz - 8, 12 & 24 Mbps DATA CAPACITY ETHERNET INTERFACE WITH UP TO 16 DS1s *
(Includes option key 695-5647-022. Maximum number of DS1s available is dependent on the radio bandwidth selecte

*Optical interface requires addition of appropriate SFP module

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact* (CP)
2 GHz Frequency Band (1755-1850 MHz) Federal NTIA							
X = 5 for 32 TCM or 7 for 128 TCM							
MDR-B502E-8-15-(-)	5	15	\$17,300	\$26,475	\$31,400	\$31,900	\$15,274
MDR-B502E-8-31-(-)	5	31	\$23,700	\$32,875	\$43,800	\$44,300	
MDR-8X02E-12-15-(-)	8	15	\$17,300	\$26,475	\$31,400	\$31,900	\$15,274
MDR-8X02E-12-31-(-)	8	31	\$23,700	\$32,875	\$43,800	\$44,300	
MDR-8X02E-24-15-(-)	16	15	\$20,550	\$31,525	\$37,900	\$38,400	\$18,525
MDR-8X02E-24-31-(-)	16	31	\$26,950	\$37,925	\$50,300	\$50,800	

*Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

MDR-8X02E - 2 GHz - 8, 12 & 24 Mbps DATA CAPACITY ETHERNET INTERFACE (Cont.)

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact* (CP)
2 GHz Frequency Band (1850-1990 MHz) PCS							
MDR-8702E-12-15-()	8	15	\$17,300	\$26,475	\$31,400	\$31,900	\$15,274
MDR-8702E-12-30-()	8	30	\$23,700	\$32,875	\$43,800	\$44,300	

1. Non-Compact +30 dBm transmit power configurations include the 3EM19148AA fan assembly.

*Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact* (CP)
2 GHz Frequency Band (2025 - 2285 MHz) Canadian							
X = 5 for 32 TCM or 7 for 128 TCM							
MDR-8502E-8-15-()	5	15	\$17,300	\$26,475	\$31,400	\$31,900	\$15,274
MDR-8502E-8-33-()	5	33	\$23,700	\$32,875	\$43,800	\$44,300	
MDR-8702E-12-15-()	8	15	\$17,300	\$26,475	\$31,400	\$31,900	\$15,274
MDR-8702E-12-33-()	8	33	\$23,700	\$32,875	\$43,800	\$44,300	
MDR-8702E-24-15-()	16	15	\$20,550	\$31,525	\$37,900	\$38,400	\$18,525
MDR-8702E-24-33-()	16	33	\$26,950	\$37,925	\$50,300	\$50,800	

1. Non-Compact +33 dBm transmit power configurations include the 3EM19148AA fan assembly.

2. 8502E-8 operates in a 2.5 MHz RF Bandwidth Channel and supports up to 8 Mbps (Equivalent 5 DS1s) with an additional 6 dBm of system gain

*Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact* (CP)
2 GHz Frequency Band (2200 - 2290 MHz) Federal NTIA							
X = 5 for 32 TCM or 7 for 128 TCM							
MDR-8502E-8-15-()	5	15	\$17,300	\$26,475	\$31,400	\$31,900	\$15,274
MDR-8502E-8-33-()	5	30	\$23,700	\$32,875	\$43,800	\$44,300	
MDR-8X02E-12-15-()	8	15	\$17,300	\$26,475	\$31,400	\$31,900	\$15,274
MDR-8X02E-12-33-()	8	30	\$23,700	\$32,875	\$43,800	\$44,300	
MDR-8X02E-24-15-()	16	15	\$20,550	\$31,525	\$37,900	\$38,400	\$18,525
MDR-8X02E-24-33-()	16	30	\$26,950	\$37,925	\$50,300	\$50,800	

1. Non-Compact +33 dBm transmit power configurations include the 3EM19148AA fan assembly.

2. 8502E-8 operates in a 2.5 MHz RF Bandwidth Channel and supports up to 8 Mbps (Equivalent 5 DS1s) with an additional 6 dBm of system gain

*Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact* (CP)
2 GHz Frequency Band (2305 - 2360 MHz) WCS							
X = 5 for 32 TCM or 7 for 128 TCM							
MDR-8502E-8-14-()	5	14	\$17,300	\$26,475	\$31,400	\$31,900	
MDR-8502E-8-30-()	5	30	\$23,700	\$32,875	\$43,800	\$44,300	
MDR-8702E-12-14-()	8	14	\$17,300	\$26,475	\$31,400	\$31,900	
MDR-8702E-12-30-()	8	30	\$23,700	\$32,875	\$43,800	\$44,300	
MDR-8702E-24-14-()	16	14	\$20,550	\$31,525	\$37,900	\$38,400	
MDR-8702E-24-30-()	16	30	\$26,950	\$37,925	\$50,300	\$50,800	

1. Non-Compact +30 dBm transmit power configurations include the 3EM19148AA fan assembly.

2. 8502E-8 operates in a 2.5 MHz RF Bandwidth Channel and supports up to 8 Mbps (Equivalent 5 DS1s) with an additional 6 dBm of system gain

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact* (CP)
2 GHz Frequency Band (2400 - 2483.5 MHz) Part 15 Unlicensed							
MDR-8502E-8-15-()	5	15	\$17,300	\$26,475	\$31,400	\$31,900	\$15,274
MDR-8502E-8-30-()	5	30	\$23,700	\$32,875	\$43,800	\$44,300	
MDR-8702E-12-15-()	8	15	\$17,300	\$26,475	\$31,400	\$31,900	\$15,274
MDR-8702E-12-30-()	8	30	\$23,700	\$32,875	\$43,800	\$44,300	
MDR-8702E-24-15-()	16	15	\$20,550	\$31,525	\$37,900	\$38,400	\$18,525
MDR-8702E-24-30-()	16	30	\$26,950	\$37,925	\$50,300	\$50,800	

1. Non-Compact +30 dBm transmit power configurations include the 3EM19148AA fan assembly.

2. 8502E-8 operates in a 2.5 MHz RF Bandwidth Channel and supports up to 8 Mbps (Equivalent 5 DS1s) with an additional 6 dBm of system gain

*Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Compact* (CP)
2 GHz Frequency Band (2450 - 2483.5 MHz) 2.4 Part 101							
MDR-8502E-8-14-()	5	14	\$17,300	\$26,475	\$31,400	\$31,900	\$15,274
MDR-8502E-8-31-()	5	31	\$23,700	\$32,875	\$43,800	\$44,300	
MDR-8702E-12-14-()	8	14	\$17,300	\$26,475	\$31,400	\$31,900	\$15,274
MDR-8702E-12-31-()	8	31	\$23,700	\$32,875	\$43,800	\$44,300	

1. Non-Compact +31 dBm transmit power configurations include the 3EM19148AA fan assembly.

2. 8502E-8 operates in a 2.5 MHz RF Bandwidth Channel and supports up to 8 Mbps (Equivalent 5 DS1s) with an additional 6 dBm of system gain

*Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

MDR-8X04E - 4 GHz - 8, 12 & 24 Mbps DATA CAPACITY ETHERNET INTERFACE WITH UP TO 16 DS1s*
(Includes option key 695-5647-022. Maximum number of DS1s available is dependent on the radio bandwidth select)
 *Optical interface requires addition of appropriate SFP module

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD) or Dual Channel (DC)	Compact* (CP)
4 GHz Frequency Band (4400 - 5000 MHz) X = 5 for 32 TCM or 7 for 128 TCM								
MDR-8504E-8-15(-)	5	15	\$20,615	\$31,113	\$39,113	\$39,613	\$40,813	\$17,860
MDR-8504E-8-29(-)	5	29	\$25,615	\$36,113	\$49,113	\$49,613	\$50,813	
MDR-8504E-8-33(-)	5	33	\$29,415	\$39,913	\$56,313	\$56,813	\$58,013	
MDR-8X04E-12-15(-)	8	15	\$20,615	\$31,113	\$39,113	\$39,613	\$40,813	\$17,860
MDR-8X04E-12-29(-)	8	29	\$25,615	\$36,113	\$49,113	\$49,613	\$50,813	
MDR-8X04E-12-33(-)	8	33	\$29,415	\$39,913	\$56,313	\$56,813	\$58,013	
MDR-8X04E-24-15(-)	16	15	\$24,215	\$36,513	\$46,313	\$46,813	\$48,013	\$21,280
MDR-8X04E-24-29(-)	16	29	\$29,215	\$41,513	\$56,313	\$56,813	\$58,013	
MDR-8X04E-24-33(-)	16	33	\$33,015	\$45,313	\$63,513	\$64,013	\$65,213	

- Non-Compact +33 dBm transmit power configurations include the 3EM19148AA fan assembly
 - 8504E-8 operates in a 2.5 MHz RF Bandwidth Channel and supports up to 8 Mbps (Equivalent 5 DS1s) with an additional 6 dBm of system gain
- *Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

MDR-8X05Eu - 5.8 GHz - 8, 12 & 24 Mbps DATA CAPACITY ETHERNET INTERFACE WITH UP TO 16 DS1s*
(Includes option key 695-5647-022. Maximum number of DS1s available is dependent on the radio bandwidth select)
 *Optical interface requires addition of appropriate SFP module

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD) or Dual Channel (DC)	Compact* (CP)
5.8 GHz Frequency Band (5725 - 5850) X = 5 for 32 TCM or 7 for 128 TCM								
MDR-8505Eu-8-15(-)	5	15	\$15,750	\$24,450	\$30,400	\$31,500	\$32,500	\$13,450
MDR-8505Eu-8-23(-)	5	23	\$18,250	\$26,950	\$35,500	\$36,500	\$37,500	\$15,950
MDR-8505Eu-8-29(-)	5	29	\$18,750	\$27,450	\$36,500	\$37,050	\$38,000	\$16,950
MDR-8705Eu-12-15(-)	8	15	\$15,750	\$24,450	\$30,400	\$31,500	\$32,500	\$13,450
MDR-8705Eu-12-23(-)	8	23	\$18,250	\$26,950	\$35,500	\$36,500	\$37,500	\$15,950
MDR-8705Eu-12-29(-)	8	29	\$18,750	\$27,450	\$36,500	\$37,050	\$38,000	\$16,950
MDR-8705Eu-24-15(-)	16	15	\$19,250	\$29,550	\$37,250	\$38,250	\$39,500	\$17,000
MDR-8705Eu-24-23(-)	16	23	\$21,750	\$32,050	\$42,250	\$43,250	\$44,500	\$19,500
MDR-8705Eu-24-29(-)	16	29	\$22,250	\$32,550	\$43,250	\$44,250	\$45,000	\$20,500

- Compact +29 dBm transmit power does not require fan tray assembly
 - 8505Eu-8 operates in a 2.5 MHz RF Bandwidth Channel and supports up to 8 Mbps (Equivalent 5 DS1s) with an additional 6 dBm of system gain
- *Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

MDR-8X06E - 6 GHz - 8, 12 & 24 Mbps DATA CAPACITY ETHERNET INTERFACE WITH UP TO 16 DS1s*
(Includes option key 695-5647-022. Maximum number of DS1s available is dependent on the radio bandwidth select)
 *Optical interface requires addition of appropriate SFP module

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD) or Dual Channel (DC)	Compact* (CP)
6 GHz Frequency Band (5850-7125 MHz) X = 5 for 32 TCM or 7 for 128 TCM								
MDR-8506E-8-15(-)	5	15	\$17,835	\$25,763	\$32,063	\$32,563	\$33,763	\$15,105
MDR-8506E-8-23(-)	5	23	\$19,885	\$28,263	\$37,063	\$37,563	\$38,763	\$17,480
MDR-8506E-8-29(-)	5	29	\$20,385	\$28,763	\$38,063	\$38,563	\$39,763	\$17,955
MDR-8506E-8-31(-)	5	31	\$22,785	\$31,163	\$42,463	\$42,963	\$44,163	\$20,235
MDR-8506E-8-33(-)	5	33	\$25,785	\$34,163	\$48,463	\$48,963	\$50,163	
MDR-8706E-12-15(-)	8	15	\$17,835	\$25,763	\$32,063	\$32,563	\$33,763	\$15,105
MDR-8706E-12-23(-)	8	23	\$19,885	\$28,263	\$37,063	\$37,563	\$38,763	\$17,480
MDR-8706E-12-29(-)	8	29	\$20,385	\$28,763	\$38,063	\$38,563	\$39,763	\$17,955
MDR-8706E-12-31(-)	8	31	\$22,785	\$31,163	\$42,463	\$42,963	\$44,163	\$20,235
MDR-8706E-12-33(-)	8	33	\$25,785	\$34,163	\$48,463	\$48,963	\$50,163	
MDR-8706E-24-15(-)	16	15	\$20,985	\$31,163	\$39,263	\$39,963	\$40,963	\$17,550
MDR-8706E-24-23(-)	16	23	\$23,485	\$33,663	\$44,263	\$44,763	\$45,963	\$19,800
MDR-8706E-24-29(-)	16	29	\$23,985	\$34,163	\$45,263	\$45,763	\$46,963	\$20,250
MDR-8706E-24-31(-)	16	31	\$26,385	\$36,563	\$49,663	\$50,163	\$51,363	\$22,410
MDR-8706E-24-33(-)	16	33	\$29,385	\$39,563	\$55,663	\$56,163	\$57,363	

- Pricing based on conformance to FCC Part 101 channel plans
 - Non-Compact +31 and +33 dBm transmit power configurations include the 3EM19148AA fan assembly
 - Compact +31 dBm transmit power configuration includes the 3EM11901AB external fan tray assembly. +29 and +23 dBm PA do not require the fan tray for the Compact indoor shel
 - Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity
 - 8506E-8 operates in a 2.5 MHz RF Bandwidth Channel and supports up to 8 Mbps (Equivalent 5 DS1s) with an additional 6 dBm of system gain
- *Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

MDR-8X08E - 7/8 GHz - 8, 12 & 24 Mbps DATA CAPACITY ETHERNET INTERFACE WITH UP TO 16 DS1s*
(Includes option key 695-5647-022. Maximum number of DS1s available is dependent on the radio bandwidth select)

*Optical interface requires addition of appropriate SFP module

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD) or Dual Channel (DC)	Compact* (CP)
7/8 GHz Frequency Band (7125-8500 MHz) X = 5 for 32 TCM or 7 for 128 TCM								
MDR-8508E-8-15-(-)	5	15	\$19,665	\$29,688	\$37,188	\$37,688	\$38,888	\$17,385
MDR-8508E-8-28-(-)	5	28	\$23,465	\$33,488	\$44,388	\$44,888	\$46,088	\$20,615
MDR-8508E-8-30-(-)	5	30	\$25,465	\$35,488	\$48,388	\$48,888	\$50,088	\$22,895
MDR-8508E-8-32-(-)	5	32	\$28,465	\$38,488	\$54,388	\$54,888	\$56,088	
MDR-8X08E-12-15-(-)	8	15	\$19,665	\$29,688	\$37,188	\$37,688	\$38,888	\$17,385
MDR-8X08E-12-28-(-)	8	28	\$23,465	\$33,488	\$44,388	\$44,888	\$46,088	\$20,615
MDR-8X08E-12-30-(-)	8	30	\$25,465	\$35,488	\$48,388	\$48,888	\$50,088	\$22,895
MDR-8X08E-12-32-(-)	8	32	\$28,465	\$38,488	\$54,388	\$54,888	\$56,088	
MDR-8X08E-24-15-(-)	16	15	\$23,085	\$34,818	\$44,118	\$44,618	\$45,818	\$20,805
MDR-8X08E-24-28-(-)	16	28	\$26,885	\$38,618	\$51,318	\$51,818	\$53,018	\$24,035
MDR-8X08E-24-30-(-)	16	30	\$28,885	\$40,618	\$55,318	\$55,818	\$57,018	\$26,315
MDR-8X08E-24-32-(-)	16	32	\$31,885	\$43,618	\$61,318	\$61,818	\$63,018	

1. Non-Compact +30 and +32 dBm transmit power configurations include the 3EM19148AA fan assembly
 2. Compact +30 dBm transmit power configuration includes the 3EM11901AB external fan tray assembly. +28 dBm PA does not require the fan tray for the Compact indoor shel
 3. Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity
 4. 8508E-8 operates in a 2.5 MHz RF Bandwidth Channel and supports up to 8 Mbps (Equivalent 5 DS1s) with an additional 6 dBm of system gain
- *Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

MDR-8X10E - 10/11 GHz - 8, 12 & 24 Mbps DATA CAPACITY ETHERNET INTERFACE WITH UP TO 16 DS1s*
(Includes option key 695-5647-022. Maximum number of DS1s available is dependent on the radio bandwidth select)

*Optical interface requires addition of appropriate SFP module

Radio Name	Capacity DS1	Xmtr Output dBm	Non- Standby (NS)	Non-Stby w/Space Diversity (NSSD)	Hot Standby (HS)	Hot Stby w/Space Diversity (HSSD)	Frequency Diversity (FD) or Dual Channel (DC)	Compact* (CP)
10/11 GHz Frequency Band (10450-11700 MHz) X = 5 for 32 TCM or 7 for 128 TCM								
MDR-8510E-8-15-(-)	5	15	\$17,150	\$25,515	\$31,590	\$32,090	\$33,290	\$14,868
MDR-8510E-8-23-(-)	5	23	\$20,000	\$28,365	\$37,290	\$37,790	\$38,990	\$17,575
MDR-8510E-8-27-(-)	5	27	\$22,050	\$30,415	\$40,990	\$41,490	\$46,690	\$19,143
MDR-8510E-8-29-(-)	5	29	\$24,050	\$32,415	\$44,490	\$45,440	\$46,690	\$21,423
MDR-8710E-12-15-(-)	8	15	\$17,150	\$25,515	\$31,590	\$32,090	\$33,290	\$14,868
MDR-8710E-12-23-(-)	8	23	\$20,000	\$28,365	\$37,290	\$37,790	\$38,990	\$17,575
MDR-8710E-12-27-(-)	8	27	\$22,050	\$30,415	\$40,990	\$41,490	\$46,690	\$19,143
MDR-8710E-12-29-(-)	8	29	\$24,050	\$32,415	\$44,490	\$45,440	\$46,690	\$21,423
MDR-8710E-24-15-(-)	16	15	\$20,750	\$30,915	\$38,790	\$39,290	\$40,490	\$18,288
MDR-8710E-24-23-(-)	16	23	\$23,600	\$33,765	\$44,490	\$44,990	\$46,190	\$20,995
MDR-8710E-24-27-(-)	16	27	\$25,650	\$35,815	\$48,190	\$48,690	\$49,890	\$22,563
MDR-8710E-24-29-(-)	16	29	\$27,650	\$37,815	\$52,190	\$52,690	\$53,890	\$24,843

1. Non-Compact +29 dBm transmit power configurations include the 3EM19148AA fan assembly
 2. Compact +29 dBm transmit power configuration includes the 3EM11901AB external fan tray assembly. +27 and +23 dBm PA do not require the fan tray for the Compact indoor shel
 3. Ring applications are addressed using two shelves of either non-standby or non-standby with space diversity
 4. 8510E-8 operates in a 2.5 MHz RF Bandwidth Channel and supports up to 8 Mbps (Equivalent 5 DS1s) with an additional 6 dBm of system gain
- *Compact configurations use Ethernet R1 hardware and software, and only provide up to 4 DS1s.

UPGRADE KITS TO ETHERNET FROM PREVIOUSLY DELIVERED MDR-8000 STANDARD SHELF CONFIGURATION

These options are used to convert or upgrade the capacity of previously delivered MDR-8000 Standard Shelf radio terminals to Ethernet R2 capabilities

UPGRADING TO ETHERNET (150 Mbps) FROM AN OC3 RADIO

Part Number	Description	
1. 3EM17641CA	ETHERNET KIT (NON-STANDBY)	\$2,500
1. 3EM16169AA	ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)*	
4. 695-9406-025	ETHERNET SOFTWARE	
5. 695-9406-030	MDR8000 RADIO SOFTWARE	
6. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*Must be called out separately, but price is included in the kit price. For ETH PLUS 32 DS1s w/ REMOTE PROVISIONING, REPLACE WITH OPTION KEY 695-5647-023 and add \$1,500		
2. 3EM17641CB	ETHERNET KIT (HOT-STANDBY)	\$4,000
1. 3EM16169AA	(2) ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)*	
4. 695-9406-025	ETHERNET SOFTWARE	
5. 695-9406-030	MDR8000 RADIO SOFTWARE	
6. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*Must be called out separately, but price is included in the kit price. For ETH PLUS 32 DS1s w/ REMOTE PROVISIONING, REPLACE WITH OPTION KEY 695-5647-023 and add \$1,500		
3. 3EM17641CG	ETHERNET KIT (NON-STANDBY) w/DUAL RCVR	\$2,500
1. 3EM16169AA	ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)*	
4. 695-9406-025	ETHERNET SOFTWARE	
5. 695-9406-030	MDR8000 RADIO SOFTWARE	
6. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*Must be called out separately, but price is included in the kit price. For ETH PLUS 32 DS1s w/ REMOTE PROVISIONING, REPLACE WITH OPTION KEY 695-5647-023 and add \$1,500		
4. 3EM17641CH	ETHERNET KIT (HOT-STANDBY) w/DUAL RCVR	\$4,000
1. 3EM16169AA	(2) ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)*	
4. 695-9406-025	ETHERNET SOFTWARE	
5. 695-9406-030	MDR8000 RADIO SOFTWARE	
6. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*Must be called out separately, but price is included in the kit price. For ETH PLUS 32 DS1s w/ REMOTE PROVISIONING, REPLACE WITH OPTION KEY 695-5647-023 and add \$1,500		

UPGRADING TO ETHERNET (150 Mbps) FROM A 3-DS3 RADIO

Part Number	Description	
5. 3EM17641CC	ETHERNET KIT (NON-STANDBY)	\$3,000
1. 3EM16169AA	ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 3EM04177AB	(2) CAP KEY FOR OC-3	
4. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)*	
5. 695-9406-025	ETHERNET SOFTWARE	
6. 695-9406-030	MDR8000 RADIO SOFTWARE	
7. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*Must be called out separately, but price is included in the kit price. For ETH PLUS 32 DS1s w/ REMOTE PROVISIONING, REPLACE WITH OPTION KEY 695-5647-023 and add \$1,500		
6. 3EM17641CD	ETHERNET KIT (HOT-STANDBY)	\$6,000
1. 3EM16169AA	(2) ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 3EM04177AB	(4) CAP KEY FOR OC-3	
4. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)*	
5. 695-9406-025	ETHERNET SOFTWARE	
6. 695-9406-030	MDR8000 RADIO SOFTWARE	
7. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*Must be called out separately, but price is included in the kit price. For ETH PLUS 32 DS1s w/ REMOTE PROVISIONING, REPLACE WITH OPTION KEY 695-5647-023 and add \$1,500		
7. 3EM17641CJ	ETHERNET KIT (NON-STANDBY) w/DUAL RCVR	\$3,500
1. 3EM16169AA	ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 3EM04177AB	(3) CAP KEY FOR OC-3	
4. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)*	
5. 695-9406-025	ETHERNET SOFTWARE	
6. 695-9406-030	MDR8000 RADIO SOFTWARE	
7. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*Must be called out separately, but price is included in the kit price. For ETH PLUS 32 DS1s w/ REMOTE PROVISIONING, REPLACE WITH OPTION KEY 695-5647-023 and add \$1,500		
8. 3EM17641CK	ETHERNET KIT (HOT-STANDBY) w/DUAL RCVR	\$7,000
1. 3EM16169AA	(2) ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 3EM04177AB	(6) CAP KEY FOR OC-3	
4. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)*	
5. 695-9406-025	ETHERNET SOFTWARE	
6. 695-9406-030	MDR8000 RADIO SOFTWARE	
7. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*Must be called out separately, but price is included in the kit price. For ETH PLUS 32 DS1s w/ REMOTE PROVISIONING, REPLACE WITH OPTION KEY 695-5647-023 and add \$1,500		

UPGRADE KITS TO ETHERNET FROM PREVIOUSLY DELIVERED MDR-8000 STANDARD SHELF, (CONT.)

UPGRADING TO ETHERNET (50 Mbps) FROM A 1-DS3 RADIO

Part Number	Description	
9. 3EM17641CE	ETHERNET KIT (NON-STANDBY)	\$3,000
1. 3EM16169AA	ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 3EM04177AA	(2) CAP KEY FOR STS-1	
4. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)*	
5. 695-9406-025	ETHERNET SOFTWARE	
6. 695-9406-030	MDR8000 RADIO SOFTWARE	
7. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*Must be called out separately, but price is included in the kit price. For ETH PLUS 32 DS1s w/ REMOTE PROVISIONING, REPLACE WITH OPTION KEY 695-5647-023 and add \$1,500		
10. 3EM17641CF	ETHERNET KIT (HOT-STANDBY)	\$6,000
1. 3EM16169AA	(2) ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 3EM04177AA	(4) CAP KEY FOR STS-1	
4. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)*	
5. 695-9406-025	ETHERNET SOFTWARE	
6. 695-9406-030	MDR8000 RADIO SOFTWARE	
7. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*Must be called out separately, but price is included in the kit price. For ETH PLUS 32 DS1s w/ REMOTE PROVISIONING, REPLACE WITH OPTION KEY 695-5647-023 and add \$1,500		
11. 3EM17641CL	ETHERNET KIT (NON-STANDBY) w/DUAL RCVR	\$3,500
1. 3EM16169AA	ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 3EM04177AA	(3) CAP KEY FOR STS-1	
4. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)*	
5. 695-9406-025	ETHERNET SOFTWARE	
6. 695-9406-030	MDR8000 RADIO SOFTWARE	
7. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*Must be called out separately, but price is included in the kit price. For ETH PLUS 32 DS1s w/ REMOTE PROVISIONING, REPLACE WITH OPTION KEY 695-5647-023 and add \$1,500		
12. 3EM17641CM	ETHERNET KIT (HOT-STANDBY) w/DUAL RCVR	\$7,000
1. 3EM16169AA	(2) ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 3EM04177AA	(6) CAP KEY FOR STS-1	
4. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)*	
5. 695-9406-025	ETHERNET SOFTWARE	
6. 695-9406-030	MDR8000 RADIO SOFTWARE	
7. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*Must be called out separately, but price is included in the kit price. For ETH PLUS 32 DS1s w/ REMOTE PROVISIONING, REPLACE WITH OPTION KEY 695-5647-023 and add \$1,500		

UPGRADING TO ETHERNET (24 Mbps) FROM A 16-DS1 RADIO

Part Number	Description	
13. 3EM17641CA	ETHERNET KIT (NON-STANDBY)	\$2,500
1. 3EM16169AA	ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)**	
4. 695-9406-025	ETHERNET SOFTWARE	
5. 695-9406-030	MDR8000 RADIO SOFTWARE	
6. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*The upgrade kits for DS1 to Ethernet assumes the original cap keys are 128 TCM Modulation.		
**Must be called out separately, but price is included in the kit price		
14. 3EM17641CB	ETHERNET KIT (HOT-STANDBY)	\$4,000
1. 3EM16169AA	(2) ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)**	
4. 695-9406-025	ETHERNET SOFTWARE	
5. 695-9406-030	MDR8000 RADIO SOFTWARE	
6. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*The upgrade kits for DS1 to Ethernet assumes the original cap keys are 128 TCM Modulation.		
**Must be called out separately, but price is included in the kit price		

UPGRADING TO ETHERNET (12 Mbps) FROM A 8-DS1 RADIO

Part Number	Description	
15. 3EM17641CA	ETHERNET KIT (NON-STANDBY)	\$2,500
1. 3EM16169AA	ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)**	
4. 695-9406-025	ETHERNET SOFTWARE	
5. 695-9406-030	MDR8000 RADIO SOFTWARE	
6. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*The upgrade kits for DS1 to Ethernet assumes the original cap keys are 128 TCM Modulation.		
**Must be called out separately, but price is included in the kit price		
16. 3EM17641CB	ETHERNET KIT (HOT-STANDBY)	\$4,000
1. 3EM16169AA	(2) ETHERNET I/O	
2. 3EM16300AA	ETHERNET LINE INTERFACE CARD	
3. 695-5647-022	OPTION KEY (ETH PLUS 16 DS1s w/REMOTE PROVISIONING)**	
4. 695-9406-025	ETHERNET SOFTWARE	
5. 695-9406-030	MDR8000 RADIO SOFTWARE	
6. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
*The upgrade kits for DS1 to Ethernet assumes the original cap keys are 128 TCM Modulation.		
**Must be called out separately, but price is included in the kit price		

UPGRADE KITS TO ETHERNET FROM PREVIOUSLY DELIVERED MDR-8000 COMPACT SHELF CONFIGURATION

These options are used to convert or upgrade the capacity of previously delivered MDR-8000 Compact Shelf radio terminals to Ethernet R1 capabilities

UPGRADING TO ETHERNET (150 Mbps) FROM AN OC3 RADIO

Part Number	Description	
1. 3EM17641AQ	ETHERNET KIT (COMPACT)	\$2,500
1. 3EM16610AB	ETHERNET I/Os	
2. 695-9406-024	ETHERNET SOFTWARE	
3. 695-9406-030	MDR8000 RADIO SOFTWARE	
4. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
2. 3EM17641BG	ETHERNET KIT (COMPACT) w/DUAL RCVR	\$2,500
1. 3EM16610AB	ETHERNET I/O	
2. 695-9406-024	ETHERNET SOFTWARE	
3. 695-9406-030	MDR8000 RADIO SOFTWARE	
4. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	

UPGRADING TO ETHERNET (150 Mbps) FROM A 3-DS3 RADIO

Part Number	Description	
3. 3EM17641AR	ETHERNET KIT (COMPACT)	\$3,000
1. 3EM16610AB	ETHERNET I/O	
2. 3EM03367AA	OC3 AUXILIARY BP	
3. 695-9406-024	ETHERNET SOFTWARE	
4. 3EM04177AB	(2) CAP KEY FOR OC-3	
5. 695-9406-030	MDR8000 RADIO SOFTWARE	
6. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
4. 3EM17641BH	ETHERNET KIT (COMPACT) w/DUAL RCVR	\$3,500
1. 3EM16610AB	ETHERNET I/O	
2. 3EM03367AA	OC3 AUXILIARY BP	
3. 695-9406-024	ETHERNET SOFTWARE	
4. 3EM04177AB	(3) CAP KEY FOR OC-3	
5. 695-9406-030	MDR8000 RADIO SOFTWARE	
6. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	

UPGRADING TO ETHERNET (50 Mbps) FROM A 1-DS3 RADIO

Part Number	Description	
5. 3EM17641AS	ETHERNET KIT (COMPACT)	\$6,000
1. 3EM16610AB	ETHERNET I/O	
2. 3EM03367AA	OC3 AUXILIARY BP	
3. 695-9406-024	ETHERNET SOFTWARE	
4. 3EM04177AA	(2) CAP KEY FOR 1-STS1	
5. 695-9406-030	MDR8000 RADIO SOFTWARE	
6. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	
6. 3EM17641BJ	ETHERNET KIT (COMPACT) w/DUAL RCVR	\$7,000
1. 3EM16610AB	ETHERNET I/O	
2. 3EM03367AA	OC3 AUXILIARY BP	
3. 695-9406-024	ETHERNET SOFTWARE	
4. 3EM04177AA	(3) CAP KEY FOR 1-STS1	
5. 695-9406-030	MDR8000 RADIO SOFTWARE	
6. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	

UPGRADING TO ETHERNET (24 Mbps) FROM A 16-DS1 RADIO

Part Number	Description	
7. 3EM17641AT	ETHERNET KIT (COMPACT)	\$3,000
1. 3EM16610AB	ETHERNET I/O	
2. 3EM03367AA	OC3 AUXILIARY BP	
3. 695-9406-024	ETHERNET SOFTWARE	
4. 695-9406-030	MDR8000 RADIO SOFTWARE	
5. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	

*The upgrade kits for DS1 to Ethernet assumes the original cap keys are 128 TCM Modulation.

UPGRADING TO ETHERNET (12 Mbps) FROM A 8-DS1 RADIO

Part Number	Description	
8. 3EM17641AU	ETHERNET KIT (COMPACT)	\$3,000
1. 3EM16610AB	ETHERNET I/O	
2. 3EM03367AA	OC3 AUXILIARY BP	
3. 695-9406-024	ETHERNET SOFTWARE	
4. 695-9406-030	MDR8000 RADIO SOFTWARE	
5. 3EM20188AAAA	CD-ROM INSTRUCTION MANUAL	

*The upgrade kits for DS1 to Ethernet assumes the original cap keys are 128 TCM Modulation.

MDR-8000 FAULT MANAGEMENT/LINK MONITOR OPTIONS

Part Number	Description	Sell Price
3DH03219AA	Relay Intfc (Provides MCS-11 ALM Inputs Or Alarm Outputs)	\$500
3EM19126AA**	SNMP option, consisting of:	\$1,500
3EM13462AB	TMN Interface Card	\$1,270
3EM14629AKAA	TMN Software on CD	\$90
3DB04799AFAA	SNMP MIB (Management Information Base) on CD	\$90
3EM13538AAAA	TMN Instruction Book on CD	\$50
695-5647-018	Controller Key for Extended Link Monitor with Remote Provisioning	\$600
695-5647-019	Controller Key for Wayside DS1 (applicable to DS3/OC-3 only)	\$1,500
695-5647-020	Controller Key for Wayside DS1 and Extended Link Monitor with remote provisioning (applicable to DS3/OC-3 only)	\$2,100
695-5647-022	Controller Key for use with Ethernet I/O module - provides up to 16 DS1s with Ethernet enabled (includes ELMC with Remote Provisioning)	\$1,600*
695-5647-023	Controller Key for use with Ethernet I/O module - provides up to 32 DS1s with Ethernet enabled (includes ELMC with Remote Provisioning)	\$2,000
3EM11996AA	Handset with DTMF	\$100

*Included in price of basic Ethernet radio. This price is for quoting spares or upgrades only

**SNMP kit is intended for upgrading existing radios, not for new radios

MDR-8000 - USER SYSTEM INTERFACE SOFTWARE

Part Number	Description	Sell Price
695-9406-030	Universal User System Interface (USI) Software	\$100
- For reference only. One copy of the appropriate software is included with each terminal		

MDR-8000 - DOCUMENTATION

Part Number	Description	Sell Price
3EM11931AA	MDR-8000/i/s/u Users Manual (with CD-ROM included)	\$90
- One copy of the User Instruction CD-ROM is included with each terminal		

RACK OPTIONS

MDR-8000 - Fans and Computer Laptop Shelf

Fan displayed for pricing multiple terminal configurations within a single rack. As a minimum the 3EM14098AA fan assembly is required and already included in the standard pricing for the following configurations and power amplifier options

MDR-8X02 equipped with +31 or +33 dBm
MDR-8X04 equipped with +33 dBm
MDR-8X05u equipped with +31 or +33 dBm
MDR-8X06 equipped with +31 or +33 dBm
MDR-8X07/8 equipped with +30 or +32 dBm
MDR-8X10/11 equipped with +29 dBm

Fan assemblies are also required and included in the standard pricing for any radio using the Dual Receiver modules (including all Quad Diversity configurations)

A fan assembly is required above each MDR-8000 terminal in multiple stacking configurations. A fan assembly is only required above the highest terminal of a multiple stacked configuration if required because of the power amplifier selected, active equipment is installed below the terminal, or passive equipment would impede airflow over the rear heat sinks. The fan assembly occupies an additional E1/rack unit or 1.75".

Part Number	Description	Sell Price
3EM19148AA	Fan Assembly w/out Laptop shelf for SIR & DIR (Non NEBS)	\$400
3EM19148AB	Fan Assembly w/ Laptop shelf for SIR & DIR (Non NEBS)	\$475
3EM19148AC	Fan Assembly w/out Laptop shelf for SIR & DIR (Non NEBS) for mounting directly beneath PDU	\$400
3EM19148AD	Laptop shelf (No Fan) (Must be 2RUs below fan assemblies for proper air circulation)	\$300
3EM19143AA	Laptop shelf kit (Used to install laptop shelf into pre-existing 3EM19148AA to convert to 3EM19148AB)	\$215
967-0500-001	NEBS Style Fan Assembly for SIR only	\$400
3EM11901AB	External Fan Assembly, Compact	\$400
3EM15115AB	Fan Unit Cable Assy, Compact	\$65
3EM16440AA	Outdoor Cabinet for the Compact Radio	\$1,250

Use of Outdoor Cabinet may require enabling APTC in certain high power configurations

Optical Fiber Management Panel

Each fiber management panel supports two MDR-8000s radio shelves. The 3EM09257AA may be used alone to provide management of fiber cables or with the addition of the 1AB12332002 or 1AB1233320023 modules supports 2X4 fiber applications using either multi or single mode fiber. The 3EM09257AB fiber management panel provides 8 duplex SC connectors for 2 or 4 fiber configurations.

Part Number	Description	Sell Price
3EM09257AA	Optical Fiber Management Panel	\$150
3EM09257AB	Optical Fiber Management Panel with 4 duplex connector	\$300
1AB123320022	Splitter/Combiner unit (MM) for 2X4 Management Panel	\$1,200
1AB123320023	Splitter/Combiner unit (SM) for 2X4 Management Panel	\$1,000

Digital Signal Cross-Connect (DSX) Panel

DSX panels provide monitoring and cross-connect for DS1 (1.544 Mbps) or E1 (2.048 Mbps) digital signals. The DSX panel provides 32 termination's and is available in two pre-wired configurations.

Part Number	Description	List Price
695-7816-001	DSX Panel - two groups of 16 terminations. Cross-X 1A to 1B, 2A to 2B, ..., 16A to	\$995
695-7816-002	DSX Panel - 32 terminations. Cross-X 1 to 2, 3 to 4, , 31 to 32	\$995
695-7816-003	Cable Assembly, 4' Qty of 2 required	\$50

Standard Rack

Part Number	Description	Sell Price
3EM13317AA	Power Distribution Panel	\$455
3EM10496AA	Optional Alarm Relay Card	\$200
694-9000-006	Standard Rack, 7' tall, 19" wide	\$450
695-0905-002	Standard Rack, 7' tall, 23" wide	\$500
694-8873-001	Adapters for 23", 7 RU (shelf two required)	\$30
695-7940-001	Adapters for 23", 2 RU (PDU two required)	\$30

Seismic Rack

Part Number	Description	
019-0429-010	Seismic Rack, 7.0'	\$565
019-0429-080	Seismic Rack, 7.5'	\$575
019-0429-090	Seismic Rack, 8.0'	\$580
019-0429-020	Seismic Rack, 9.0'	\$590
019-0429-030	Seismic Rack, 11.5'	\$635
019-0429-040	Seismic Rack, 11.67'	\$635
695-1001-005	Grounding Kit, Seismic	\$150

Rack Extension Kit

Provides rails which extend the height of the standard 7' rack to any height up to 11.5'. Use one per rack. Do not use with seismic type racks.

Part Number	Description	
690-1125-003	Rack Extension Kit	\$230

Guard Rail Kit

Provides guard rails for radio racks.

Part Number	Description	
690-4367-005	Guard Rail Kit, Side (use w/-007)	\$80
690-4367-006	Guard Rail Kit, Side (use w/-008)	\$210
690-4367-007	Guard Rail Kit, Front	\$450
690-4367-008	Guard Rail, Front & Rear	\$685

AC Outlet

Provides AC outlet kit. Use one per rack

Part Number	Description	
690-4373-001	Kit AC Outlet	\$105

Adjacent Rack Attachment Kit Options

Use to mechanically connect adjacent Aluminum racks. Use -001 for standard 7' racks and -002 for standard racks with rack extension kit.

Part Number	Description	
694-9004-001	Adjacent Rack Attach Kit, Standard	\$25
694-9004-002	Adjacent Rack Attach Kit, with Rk Ext.	\$25

WAVEGUIDE OPTIONS

Coax to Waveguide Transitions

Provides multiple options to customize the waveguide interface to the customer's requirements. Select one of the following.

Standard

Provides transition from the filter SMA output to CMR-137 or WR-75. These kits provide a 15 inch SMA (M) to SMA (M) flex cable and a SMA (F) to waveguide transition (CMF or WR) for each antenna port required. The waveguide transitions mount directly onto the rear of the MDR-8000.

Part Number	Description	
3DH04122GA	Single Port WG Kit, CMR-137, 6 GHz (5850-7125 MHz)	\$250
3DH04122GB	Dual Port WG Kit, CMR-137, 6 GHz (5850-7125 MHz)	\$500
3DH04122GK	Single Port WG Kit, UG-51, 8 GHz (7125-8500 MHz)	\$390
3DH04122GL	Dual Port WG Kit, UG-51, 8 GHz (7125-8500 MHz)	\$500
3DH04122GN	Single Port WG Kit, WR-75, 10 GHz (10550-10680 MHz)	\$300
3DH04122GR	Single Port WG Kit, WR-75, 10 GHz (10700-11700 MHz)	\$250
3DH04122GP	Dual Port WG Kit, WR-75, 10 GHz (10550-10680 MHz)	\$500
3DH04122GS	Dual Port WG Kit, WR-75, 10 GHz (10700-11700 MHz)	\$500

Option 1

These kits provide transition from the filter to the antenna waveguide connector using flexible cable. The kits include (1) 4 foot SMA (M) to Type N (M) 1/4" low loss cable and (1) Type N (F) to CPR waveguide adapter.

Part Number	Description	
695-7834-007	WG Kit, 6 GHz	\$600
695-7834-008	WG Kit, 10 GHz	\$600

Option 2

Provides a SMA to Waveguide transition for a MDR-8000 terminal, equipped with diplexer filters, installed in either position A2, A5, or A8 to the top of the rack using rigid waveguide. The kits include a SMA cable, SMA/waveguide adapter, straight waveguide, brackets and waveguide clamps. Refer to Network Engineers for specific part numbers

Part Number	Description	
Refer to Network Eng.	6/8/11 GHz, HS, A2 Position	\$400
Refer to Network Eng.	6/8/11 GHz, HSSD, A2 Position	\$750
Refer to Network Eng.	6/8/11 GHz, HS, A5 Position	\$500
Refer to Network Eng.	6/8/11 GHz, HSSD, A5 Position	\$900
Refer to Network Eng.	6/8/11 GHz, HS, A8 Position	\$600
Refer to Network Eng.	6/8/11 GHz, HSSD, A8 Position	\$1,050

High Capacity Stacking Kits

For stacking of up to three high capacity MDR-8000 radios onto a single antenna system Radio growth is in the order of Shelf one in position A2 (Top Shelf), Shelf two in position A5 (Middle Shelf), and Shelf three in position A8 (Bottom Shelf). The Sell prices provided are added to the appropriate terminal Sell price. Refer to Network Engineers for specific part numbers

Part Number	Description	
Refer to Network Eng.	6/8/11 GHz, HS, A2 & A5 Position, Separate Antenna	\$1,000
Refer to Network Eng.	6/8/11 GHz, HS, A2 & A5 Position, Externally Combining	\$1,500
Refer to Network Eng.	6/8/11 GHz, HSSD, A2 & A5 Position, Separate Antenna	\$1,500
Refer to Network Eng.	6/8/11 GHz, HSSD, A2 & A5 Position, Externally Combining	\$2,000
Refer to Network Eng.	6/8/11 GHz, HS, A8 Position	\$500
Refer to Network Eng.	6/8/11 GHz, HSSD, A8 Position	\$1,000

Waveguide Flange Adapters

Provides waveguide flange transitions for the MDR-8000

Part Number	Description	
3DH04122HA	Single Port WG Kit, CMR-137 to CPR-137, 6 GHz	\$250
3DH04122HB	Dual Port WG Kit, CMR-137 to CPR-137, 6 GHz	\$500
3DH04122HK	Single Port WG Kit, UG-51 to CPR-112, 8 GHz	\$250
3DH04122HL	Dual Port WG Kit, UG-51 to CPR-112, 8 GHz	\$500
3DH04122HN	Single Port WG Kit, WR-75 to CPR-90, 10 GHz	\$250
3DH04122HP	Dual Port WG Kit, WR-75 to CPR-90, 10 GHz	\$500

MDR-8000 - GENERAL CABLE OPTIONS

Power Cable Kit

Provides DC power connection from J1 or J2 to the power distribution unit.

Part Number	Description	
695-7845-005	Cable, Power, 8ft, (3rd and 4th radio shelves position in the rack assy)	\$90
695-7845-006	Connector Kit	\$45
695-7845-007	Cable, Power, Spade lugs, 8ft	\$90
695-7845-009	Power Cable, 5.5ft (1st and 2nd radio shelves position in the rack assy)	\$90

OC3 Fiber Optic Jumper Cables

Dual fiber optic jumper cables to transition from the LC connectors on the OC3 I/O Interface to other LC or FC or SC type connectors. Each cable provides connection for the optional input and output.

Part Number	Description	
3EM07641AC	Optical Cable, LC to LC, 3 meter, multi mode	\$200
3EM07641AD	Optical Cable, LC to LC, 5 meter, multi mode	\$200
3EM07641AE	Optical Cable, LC to LC, 10 meter, multi mode	\$200
3EM07646AC	Optical Cable, LC to SC, 3 meter, multi mode	\$200
3EM07646AD	Optical Cable, LC to SC, 5 meter, multi mode	\$200
3EM07646AE	Optical Cable, LC to SC, 10 meter, multi mode	\$200
3EM07651AC	Optical Cable, LC to FC, 3 meter, multi mode	\$200
3EM07651AD	Optical Cable, LC to FC, 5 meter, multi mode	\$200
3EM07651AE	Optical Cable, LC to FC, 10 meter, multi mode	\$200
3EM07641AH	Optical Cable, LC to LC, 3 meter, single mode	\$200
3EM07641AJ	Optical Cable, LC to LC, 5 meter, single mode	\$200
3EM07641AK	Optical Cable, LC to LC, 10 meter, single mode	\$200
3EM07646AH	Optical Cable, LC to SC, 3 meter, single mode	\$200
3EM07646AJ	Optical Cable, LC to SC, 5 meter, single mode	\$200
3EM07646AK	Optical Cable, LC to SC, 10 meter, single mode	\$200
3EM07651AH	Optical Cable, LC to FC, 3 meter, single mode	\$200
3EM07651AJ	Optical Cable, LC to FC, 5 meter, single mode	\$200
3EM07651AK	Optical Cable, LC to FC, 10 meter, single mode	\$200

Muldem Installation Option

These options provide the cables necessary to install DMX-3003N or RDI-3100e muldem in the MDR-8000 applications. Select the desired muldem from the appropriate section

DMX-3003N Muldem Installation Options

Select the cable kits applicable for the number of initial DMX-3003N's required. The -004 kit provides cables to add an additional DMX-3003N's to an existing MDR-8000 DS3 already equipped with at least one DMX-3003N. The MCS-11 cable kit provides telemetry connector from the first DMX-3003N to the MDR-8000.

Part Number	Description	
695-4161-001	Cable Kit, 1 DMX-3003N	\$135
695-4161-002	Cable Kit, 2 DMX-3003N	\$295
695-4161-003	Cable Kit, 3 DMX-3003N	\$455
695-4161-004	Cable Kit Add, DMX-3003N	\$160
695-7801-001	Cable Kit, MCS-11	\$160

RDI-3100e Muldem Installation Options

Refer to the RDI-3100e pricing catalog for additional information. Four DS3 cables are required for each RDI-3100e.

Part Number	Description	
632-4429-096	Cable, DS3, 8'	\$45
632-4429-180	Cable, DS3, 15'	\$50
695-4126-001	Cable, TBOS or Discrete Alarms	\$135
695-4126-003	Cable, Major/Minor to MDR-8000	\$185
695-4126-013	Cable, MCS-11, 6'	\$115
695-4126-014	Cable, MCS-11 Daisy Chain, 1	\$60
695-4126-015	Cable, MCS-11 Daisy Chain, 15	\$135
695-4128-002	Cable, Power, 15'	\$80

16 DS1 Input/Output Cable

Connects 16 DS1 input and output signals to an MDR-8000 DS1 terminal. Two cables required; one input, one output. Connector on one end, other end unterminated. NOTE: TWO cables required.

Part Number	Description	
695-7806-001	15' Cable	\$90
695-7806-002	30' Cable	\$110
695-7806-003	50' Cable	\$125
695-7806-004	100' Cable	\$180
695-7806-005	200' Cable	\$285

DS1 Input/Output Cables for Compact Shell

90 degree connector (25-pin D) on one end, pigtail on the other end. Eight DS1's per connector, inputs and outputs are on separate connectors. Two cables are required for 1-8 DS1's, four cables are required for 9-16 DS1's

Part Number	Description	
695-7806-021	15' Cable	\$90
695-7806-022	30' Cable	\$110
695-7806-023	50' Cable	\$125
695-7806-024	100' Cable	\$180
695-7806-025	200' Cable	\$285

Wayside DS1 Cable Option

Connects Wayside DS1s input and output signals to an MDR-8000-DS3/OC3 terminal. One DS1 is available with each DS3 or three for the OC3 when the Wayside controller key option is selected. For three DS1s, two cables are required for J201 and J202, and for four DS1s an additional cable is required for J203. DB-9 connector on one end, other end unterminated.

Part Number	Description	
695-4125-061	DS1 Shielded Cable, One end unterminated, 50'	\$130
695-4125-062	DS1 Shielded Cable, One end unterminated, 25'	\$115
695-4125-063	DS1 Shielded Cable, One end unterminated, 15'	\$100
695-4125-051	DS1 Shielded Cable, Repeater, no drops, 4'	\$100
695-4125-052	DS1 Shielded Cable, Repeater, no drops, 8'	\$110
695-4125-053	DS1 Shielded Cable, Repeater, no drops, 15'	\$135
695-4125-054	DS1 Shielded Cable, Repeater, no drops, 25'	\$160
	DS1 Shielded Cable, Repeater, no drops, 50'	\$185

Repeater Interrack Data Cable (OC3)

One required at repeater sites to connect between two MDR-8000-OC3 terminals. Carries all auxiliary overhead channels between the two terminals. Connections between MDR-8000-OC3 and DS1 or DS3 terminals require using the asynchronous cable kits listed in the Junction cable section. To carry all auxiliary overhead channels between two terminals will require using asynchronous cable kits in the Junction cable section

Part Number	Description	
695-4125-010	4' Cable	\$100
695-4125-011	8' Cable	\$110
695-4125-012	25' Cable	\$160
695-4125-013	50' Cable	\$185

Repeater Interrack Data Cable (DS1 or DS3)

One required at repeater sites to connect between two MDR-8000-DS1 terminals or two MDR-8000 DS3 terminals. Carries all auxiliary overhead channels and DS1 signals in low capacity configurations between the two terminals. Connections between MDR-8000 DS1 and DS3 terminals require using the asynchronous cable kits listed in the Junction cable section

Part Number	Description	
695-7836-001	4' Cable	\$100
695-7836-002	8' Cable	\$110
695-7836-003	15' Cable	\$135
695-7836-004	25' Cable	\$160
695-7836-005	50' Cable	\$185

One required at repeater site to connect a MDR-8000-DS1 to a MDR-6000 terminal. Carries all auxiliary and DS1 signals between the two racks

Part Number	Description	
695-7836-021	4' Cable	\$100
695-7836-022	8' Cable	\$110
695-7836-023	15' Cable	\$135
695-7836-024	25' Cable	\$160
695-7836-025	50' Cable	\$185

90 degree connector on each end

Part Number	Description	
695-7836-031	4' Cable	\$100
695-7836-032	8' Cable	\$110
695-7836-033	15' Cable	\$135
695-7836-034	25' Cable	\$160
695-7836-035	50' Cable	\$185

User Interface Cable

Connects laptop personal computer to MDR-8000.

Part Number	Description	
695-7848-001	4' Cable	\$40
695-7848-002	6' Cable	\$50
695-7848-003	15' Cable	\$75

Alarm and Control Interface Cable

Connects alarms and controls into and out of an MDR-8000 radio. One end is connectorized, the other end is unterminated.

Part Number	Description	
695-4121-001	25' Cable	\$110
695-4121-002	50' Cable	\$135
695-4121-003	100' Cable	\$180

MDR-8000 JUNCTION STATION CABLES

The following cables provide connections between two MDR-8000's or to another Alcatel radio product.

MCS-11 Junction Cable

Connects MCS-11 signals to a second MDR-8000 when no synchronous repeater cable is used or to the third rack when utilizing the synchronous repeater cable. Frogged pin cable

Part Number	Description	
695-7837-001	4' Cable	\$100
695-7837-002	8' Cable	\$110
695-7837-003	15' Cable	\$135
695-7837-004	25' Cable	\$160
695-7837-005	50' Cable	\$185

Connects MCS-11 signals to a third MDR-8000 when no synchronous repeater cable is used or to the third or fifth or seventh rack when utilizing the synchronous repeater cable. Also used to connect an MCS-11 polling master (TSM-XXXX) to an MDR-8000 and used to connect MCS-11 signals from an MDR-8000 to a MDR-4000e/s. Pin to Pin cable for J308/309

Pin to Pin cable for J308/309

Part Number	Description	
695-7837-021	4' Cable	\$100
695-7837-022	8' Cable	\$110
695-7837-023	15' Cable	\$135
695-7837-024	25' Cable	\$160
695-7837-025	50' Cable	\$185

Frogged Pin cable for J307/310

Part Number	Description	
695-7837-031	4' Cable	\$100
695-7837-032	8' Cable	\$110
695-7837-033	15' Cable	\$135
695-7837-034	25' Cable	\$160
695-7837-035	50' Cable	\$185

Connects MCS-11 signals from an MDR-8000 to a MDR-4000 or 5000 radio.

Part Number	Description	
695-4147-001	15' Cable	\$135
695-4147-002	30' Cable	\$160
695-4147-003	50' Cable	\$185

Audio Junction Cable

Connects the audio signals of a third MDR-8000 to either one of the other two MDR-8000 racks at a three way Junction. Required at third, fifth, seventh, etc. way MDR-8000 junctions or connection to a MDR-6000.

Part Number	Description	
695-4125-026	4' Cable	\$100
695-4125-027	8' Cable	\$110
695-4125-028	15' Cable	\$135
695-4125-029	25' Cable	\$160
695-4125-030	50' Cable	\$185

Connects MDR-8000 audio signals to a MDR-4000e or 5600.

Part Number	Description	
695-7814-003	50' Cable	\$130

Extended Link Monitor Channel (ELMC) Junction Cable

Connects the ELMC signals of a third MDR-8000 radio to either one of the other two MDR-8000's at a three-way junction or to a MDR-6000. Required for ELMC signal interconnection at three five, seven, etc. way junctions.

Part Number	Description	
695-4125-010	4' Cable	\$100
695-4125-011	8' Cable	\$110
695-4125-012	25' Cable	\$160
695-4125-013	50' Cable	\$185

Connects the ELMC signals of a MDR-8000 radio to a MDR-4000e or MDR-5600

Part Number	Description	
695-7814-003	50' Cable	\$130

RS-232 Junction Cable

Connects the RS-232 signals of a third MDR-8000 to either one of the other two MDR-8000's at a three way junction or for to the MDR-6000.

Part Number	Description	
695-4125-021	4' Cable	\$100
695-4125-022	8' Cable	\$110
695-4125-023	15' Cable	\$135
695-4125-024	25' Cable	\$160
695-4125-025	50' Cable	\$185

Ethernet and TMN Interface Cables

Part Number	Description	
3EM15052AA	Data Cables, RJ45, 3 ft	\$40
3EM15052AD	Data Cables, RJ45, 6 ft	\$45
3EM15052AH	Data Cables, RJ45, 10 ft	\$50
3EM15052AN	Data Cables, RJ45, 20 ft	\$55
3EM15052AQ	Data Cables, RJ45, 30 ft	\$60
3EM15052AU	Data Cables, RJ45, 50 ft	\$90
3EM15052AY	Data Cables, RJ45, 70 ft	\$120
3EM15052BB	Data Cables, RJ45, 100 ft	\$150
3EM15052BC	Data Cables, RJ45, 200 ft	\$250
3EM15052BD	Data Cables, RJ45, 300 ft	\$350

Cables are unshielded Category 5E (CAT5E) Ethernet cables.

MISCELLANEOUS OPTIONS

Test Lead Kit

Provides miscellaneous test leads, wrenches, adapters, etc. for use in testing and maintaining the MDR-8000 radio.

Part Number	Description	
695-0675-003	Kit, Test Lead/Tool	\$300

External Alarm/Control Wire Wrap Adapter

Wire-wrap adapter to allow wire-wrap connections for external alarms, controls, and audio ports.

Part Number	Description	
695-4171-002	Wire Wrap Adapter, 50 pin	\$40
3DH04178AB	Wire Wrap Adapter, Audio ports, 9 Pin	\$35

CAPACITY UPGRADE PRICING

These options are used to convert or upgrade the capacity of previously delivered MDR-8000 radio terminals. Proper consideration must be given to the design of the radio path when converting OR upgrading capacity.

This policy applies to capacity upgrades between 2 to 16 DS1/E1 and 1 to 3 DS3. This policy **does not** apply for upgrades from DS1 to DS3 or OC-3 capacities. **Nor does it** apply for DS3 to OC-3 capacity upgrades. For capacity upgrades between 2 to 16 DS1/E1 or 1 to 3 DS3 customers are invoiced for the final net cost of the capacity upgrade but are required to return the old capacity keys to Alcatel USA. Failure to return the old capacity keys to Alcatel USA will result in the customer being invoiced for the full value of the old capacity kits. No discount is authorized beyond the trade-in-allowance itself. Contact Network Engineering for a final proposal.

Example: The upgrade kit would include:

	QTY	Unit Price	Extended
MDR-8706-16 Capacity Keys	4	4,100	\$16,400
Trade in credit for MDR-8706-2 Capacity Keys	4	150	(\$600)
Upgrade Cost			\$15,800

Example: The upgrade kit would include:

	QTY	Unit Price	Extended
MDR-8606-135 Capacity Keys	4	4,275	\$17,100
Trade in credit for MDR-8606-45 Capacity Keys	4	3,275	(\$13,100)
Upgrade Cost			\$4,000

CAPACITY UPGRADE MODULE PICK LIST

Part Number	Description	
967-1609-002	MDR-8500-4	Capacity Key for 4 DS1 32 TCM \$850
967-1609-003	MDR-8500-8	Capacity Key for 8 DS1 32 TCM \$2,300
967-1609-005	MDR-8500-16	Capacity Key for 16 DS1 32 TCM \$4,100
967-1609-007	MDR-8700-4	Capacity Key for 4 DS1 128 TCM \$850
967-1609-008	MDR-8700-8	Capacity Key for 8 DS1 128 TCM \$2,300
967-1609-010	MDR-8700-16	Capacity Key for 16 DS1 128 TCM \$4,100
967-1609-023	MDR-8500-5	Capacity Key for 5 DS1 32 TCM \$1,200
967-1609-025	MDR-8500-11	Capacity Key for 11 DS1 32 TCM \$3,000
3EM01583AA	MDR-8600-45	Capacity Key for 1 DS3 64 QAM \$3,275
3EM12115AB	MDR-8500-90	Capacity Key for 2 DS3 32 TCM \$4,025
3EM01583AB	MDR-8600-135	Capacity Key for 3 DS3 64 QAM \$4,275
3EM04177AA	MDR-8700-52	Capacity Key for STS-1 128 TCM \$3,600
3EM04177AB	MDR-8700-155	Capacity Key for OC3 128 TCM \$4,700

Note: One Capacity Key is required for each Transmit and Receive module. The Dual Receiver module requires two Capacity Key

LBO MODULES

Part Number	Description	
3DH03144AA	LBO (0-330') DS1 LINEAR	\$400
3DH03144AB	LBO (330-650') DS1 LINEAR	\$400
3DH03144AC	LBO E1 LINEAR	\$400
3DH03173AK	LBO DS3 LINEAR	\$500
3EM03367AA	AUXILIARY BOARD OC-3 LINEAR	\$500
3EM13662AA	Compact DS1 LBO (0-330')	\$400
3EM13688AA	Compact DS3 LBO (0-225')	\$400
3EM13693AA	Compact Aux Interface	\$500
3EM16300AA	Line Interface Card (Ethernet)	\$500

FREQUENCY AGILITY KIT FOR 5.8 GHz UNLICENSED APPLICATIONS

Part Number	Description	
3EM11576AA	Oscillator boards, A-A' (5730-5750, 5795-5815, 2 each of 10 frequencies.)	\$3,500
3EM11576AB	Oscillator boards, B-B' (5760-5780, 5825-5845, 2 each of 10 frequencies.)	\$3,500

SFP MODULES FOR ETHERNET I/O

Part Number	Description	
3EM20277AA	850 nm, multi-mode, 550 meters	\$225
3EM20277AB	1310 nm, single mode, 10 km	\$225
3EM20277AC	1310 nm, single mode, 40 km	\$300
3EM20277AD	1550 nm, single mode, 80 km	\$450

MDR-8000 - MODULE LIST AND RECOMMENDED SPARES

(For bid purposes only. For a complete Selling of module part numbers refer to the Network Engineer)

Digital Modules

Part Number	Description	Sell Price
3EM16169AA	ETHERNET I/O (Ethernet R2 for Standard Shelf Configurations Only)	\$1,500
3EM16610AB	ETHERNET I/O (Ethernet R1 for Compact Shelf Configurations Only)	\$1,500
3DH03131AA	I/O Interface (1.544 Mb/s)	\$1,500
3DH03131AB	I/O Interface (2.048 Mb/s)	\$1,500
3DH03169AP	I/O Interface (45/135 Mb/s), 64 QAM, Auto / Manual DADE*	\$2,000
3DH03169AQ	I/O Interface (90 Mb/s, 2 DS3), 32 TCM, Auto / Manual DADE**	\$2,200
3DH03169AR	I/O Interface (45/135 Mb/s), 64 QAM, Automatic DADE***	\$2,000
3DH03169AS	I/O Interface (90 Mb/s, 2 DS3), 32 TCM, Automatic DADE***	\$2,200
3EM03134AC	I/O Interface (155 Mb/s)	\$2,500
3DH03155AB	Controller	\$1,500
3DH03164AB	Power Supply	\$1,500
3DH03219AA	Relay Interface	\$500
3EM13462AB	TMN Interface card	\$1,270
3EM14510AC	Compact Fan Card	\$250
967-1633-001	Replacement Fan for Compact Fan Card	\$40
3EM11901AB	Compact External Fan Tray Assembly	\$400

* Backward compatible with AA, AB, AG, & AH.

** Backward compatible with AJ.

*** For new radio builds without manual DADE adjustment

Automatic Radio DADE requires a minimum DS3 controller software load of R2.02

RF Components

1.755-1.850 GHz

Part Number	Description	Qty	
3EM09626AG	Transmitter (1755-1850 MHz)	1	\$2,900
3EM09628AJ	Receiver (1755-1850 MHz)	1	\$3,150
3EM09037AD	Power Amplifier +31 dBm	1	\$6,000
3DH04123AH*	Oscillator Board (112.700 - 118.750 MHz)	1	\$150
3DH04123AJ*	Oscillator Board (118.750 - 125.000 MHz)	1	\$150
155-xxxx-xxx*	Crystal	1	\$75

1.850-1.990 GHz

Part Number	Description	Qty	
3EM09626AB	Transmitter (1850-1910 MHz)	1	\$2,900
3EM09628AD	Receiver (1850-1910 MHz)	1	\$3,150
3EM09626AC	Transmitter (1930-1990 MHz)	1	\$2,900
3EM09628AE	Receiver (1930-1990 MHz)	1	\$3,150
3EM09037AB	Power Amplifier +31 dBm (1850-1990 MHz)	1	\$6,000
3DH04123AJ*	Oscillator Board (118.750 - 125.000 MHz)	1	\$150
3DH04123AK*	Oscillator Board (125.000 - 130.000 MHz)	1	\$150
3DH04123AL*	Oscillator Board (130.000 - 136.500 MHz)	1	\$150
155-xxxx-xxx*	Crystal	1	\$75

2.025-2.285 GHz

Part Number	Description	Qty	
3EM09626AD	Transmitter (2025-2285 MHz)	1	\$2,900
3EM09628AG	Receiver (2025-2285 MHz)	1	\$3,150
3EM09037AA	Power Amplifier +33 dBm (2025-2285 MHz)	1	\$6,000
3DH04123AL*	Oscillator Board (130.000 - 136.500 MHz)	1	\$150
3DH04123AM*	Oscillator Board (136.500 - 142.778 MHz)	1	\$150
3DH04123AN*	Oscillator Board (149.333 - 156.000 MHz)	1	\$150
3DH04123AP*	Oscillator Board (142.778 - 149.333 MHz)	1	\$150
155-xxxx-xxx*	Crystal	1	\$75

2.200-2.290 GHz

Part Number	Description	Qty	
3EM09626AD	Transmitter (2200-2290 MHz)	1	\$2,900
3EM09628AG	Receiver (2200-2290 MHz)	1	\$3,150
3EM09037AA	Power Amplifier +33 dBm (2200-2290 MHz)	1	\$6,000
3DH04123AN*	Oscillator Board (149.333 - 156.000 MHz)	1	\$150
3DH04123AP*	Oscillator Board (142.778 - 149.333 MHz)	1	\$150
155-xxxx-xxx*	Crystal	1	\$75

2.305 - 2.360 GHz

Part Number	Description	Qty	
3EM09626AF	Transmitter (2305-2360 MHz)	1	\$2,900
3EM09628AH	Receiver (2305 - 2360 MHz)	1	\$3,150
3EM09037AC	Power Amplifier +30 dBm	1	\$6,000
3DH04123AJ*	Oscillator Board (118.750 - 125.000 MHz)	1	\$150
155-xxxx-xxx*	Crystal	1	\$75

2.450 - 2.483 GHz

Part Number	Description	Qty	
3EM09626AE	Transmitter (2400-2483 MHz)	1	\$2,900
3EM09628AF	Receiver (2400- 2483 MHz)	1	\$3,150
3EM09037AC	Power Amplifier +31 dBm (2400 - 2483 MHz)	1	\$6,000
3DH04123AK*	Oscillator Board (125.000 - 130.000 MHz)	1	\$150
3DH04123AL*	Oscillator Board (130.000 - 136.500 MHz)	1	\$150
155-xxxx-xxx*	Crystal	1	\$75

4.4 - 5.0 GHz

Part Number	Description	Qty	
3EM15365AA	Transmitter (4600-5000 MHz)		\$4,000
3EM15365AB	Transmitter (4400-4600 MHz)		\$4,000
3EM15366AA	Receiver (4600-5020 MHz)		\$4,250
3EM15366AB	Receiver (4400-4600 MHz)		\$4,250
3EM17800AA	Dual Input Receiver (4400-4600 MHz)		\$6,750
3EM17800AB	Dual Input Receiver (4600-5000 MHz)		\$6,750
3EM15140AA	Power Amplifier +33 dBm (4400-5000 MHz)		\$8,400
3EM15140AB	Power Amplifier +29 dBm (4400-5000 MHz)		\$3,400
3DH04123AJ	Oscillator Board (118.7500 - 125.0000 MHz)		\$150
3DH04123AK	Oscillator Board (125.0000 - 130.0000 MHz)		\$150
3DH04123AL	Oscillator Board (130.0000 - 136.5000 MHz)		\$150
3DH04123AM	Oscillator Board (136.5000 - 142.7780 MHz)		\$150
155-xxxx-xxx*	Crystal (125.7143 - 142.8571 MHz)		\$75

5.725-5.850 GHz (Unlicensed)

Part Number	Description	
3DH03236AF	Transmitter (5725-6425)	\$2,750
3DH03239AM	Receiver (5725-6425)	\$3,000
3EM06561AB	Dual Input Receiver (5725-6425)	\$5,500
3DH03218AA	Power Amplifier +23/+25 dBm	\$2,500
3DH03218AC	Power Amplifier +29/+30 dBm	\$3,000
3EM11576AA	Oscillator boards, Gray (5730-5750, 5795-5815, 2 ea)	\$3,500
3EM11576AB	Oscillator boards, Blue (5760-5780, 5825-5845, 2 ea)	\$3,500
3EM11285AA	G1, 5730 MHz, Crystal (127.3333 MHz)	\$225
3EM11285AB	G2, 5735 MHz, Crystal (127.4444 MHz)	\$225
3EM11285AC	G3, 5740 MHz, Crystal (127.5556 MHz)	\$225
3EM11285AD	G4, 5745 MHz, Crystal (127.6667 MHz)	\$225
3EM11285AE	G5, 5750 MHz, Crystal (127.7778 MHz)	\$225
3EM11285AF	B1, 5760 MHz, Crystal (128.0000 MHz)	\$225
3EM11285AG	B2, 5765 MHz, Crystal (128.1111 MHz)	\$225
3EM11285AH	B3, 5770 MHz, Crystal (128.2222 MHz)	\$225
3EM11285AJ	B4, 5775 MHz, Crystal (128.3333 MHz)	\$225
3EM11285AK	B5, 5780 MHz, Crystal (128.4444 MHz)	\$225
3EM11285AL	G1P, 5795 MHz, Crystal (128.7778 MHz)	\$225
3EM11285AM	G2P, 5800 MHz, Crystal (128.8889 MHz)	\$225
3EM11285AN	G3P, 5805 MHz, Crystal (129.0000 MHz)	\$225
3EM11285AP	G4P, 5810 MHz, Crystal (129.1111 MHz)	\$225
3EM11285AQ	G5P, 5815 MHz, Crystal (129.2222 MHz)	\$225
3EM11285AR	B1P, 5825 MHz, Crystal (129.4444 MHz)	\$225
3EM11285AS	B2P, 5830 MHz, Crystal (129.5556 MHz)	\$225
3EM11285AT	B3P, 5835 MHz, Crystal (129.6667 MHz)	\$225
3EM11285AU	B4P, 5840 MHz, Crystal (129.7778 MHz)	\$225
3EM11285AV	B5P, 5845 MHz, Crystal (129.8889 MHz)	\$225
3DH04123AK	Oscillator Board (125.0000 - 130.0000 MHz)	\$150
155-xxxx-xxx*	Crystals (127.2222 - 130.0000 MHz)	\$75

5.925-6.425 GHz (Lower 6 GHz)

Part Number	Description	
3DH03236AF	Transmitter (5725-6425)	\$2,750
3DH03239AM	Receiver (5725-6425)	\$3,000
3EM06561AB	Dual Input Receiver (5725-6425)	\$5,500
3DH03218AA	Power Amplifier +23/+25 dBm	\$2,500
3DH03218AC	Power Amplifier +29/+30 dBm	\$3,000
3DH03218AE	Power Amplifier +31 dBm	\$5,000
3DH03218AG	Power Amplifier +33 dBm	\$8,000
3DH04123AL	Oscillator Board (130.0000 - 136.5000 MHz)	\$150
3DH04123AM	Oscillator Board (136.5000 - 142.7780 MHz)	\$150
155-xxxx-xxx*	Crystal (131.6667 - 142.7778 MHz)	\$75

6.525 - 6.875 GHz (Upper 6 GHz)

Part Number	Description	
3DH03137AG	Transmitter (6400-6525 MHz)	\$2,750
3DH03137AH	Transmitter (6525-6875 MHz)	\$2,750
3DH03132AP	Receiver (6400-6525)	\$3,000
3DH03132AQ	Receiver (6525-6875)	\$3,000
3EM14046AD	Dual Input Receiver (6400-6525)	\$5,500
3EM14046AE	Dual Input Receiver (6525-6875)	\$5,500
3DH03218AB	Power Amplifier +23 dBm (6425-7125)	\$2,500
3DH03218AD	Power Amplifier +29 dBm (6425-7125)	\$3,000
3DH03218AF	Power Amplifier +31 dBm (6425-7125)	\$5,000
3DH03218AH	Power Amplifier +33 dBm (6425-7125)	\$8,000
3DH04123AG	Oscillator Board (106.6670 - 112.7000) MHz)	\$150
3DH04123AH	Oscillator Board (112.7000 - 118.7500 MHz)	\$150
155-xxxx-xxx*	Crystal (108.7500 - 114.5833 MHz)	\$75

6.875 - 7.125 GHz (Part 74)

Part Number	Description	
3DH03137AJ	Transmitter (6875-7125 MHz)	\$2,750
3DH03132AR	Receiver (6875-7125 MHz)	\$3,000
3EM14046AF	Dual Input Receiver (6875-7125)	\$5,500
3DH03218AB	Power Amplifier +23 dBm (6425-7125)	\$2,500
3DH03218AD	Power Amplifier +29 dBm (6425-7125)	\$3,000
3DH03218AF	Power Amplifier +31 dBm (6425-7125)	\$5,000
3DH03218AH	Power Amplifier +33 dBm (6425-7125)	\$8,000
3DH04123AH	Oscillator Board (112.7000 - 118.7500 MHz)	\$150
155-xxxx-xxx*	Crystal (114.5833 - 118.7500 MHz)	\$75

7.125-8.5 GHz

Part Number	Description	
3DH04170AC	Transmitter (7125-7750 MHz)	\$3,500
3DH04170AD	Transmitter (7700-8500 MHz)	\$3,500
3DH04175AJ	Receiver (7125-7750 MHz)	\$3,750
3DH04175AK	Receiver (7700-8500 MHz)	\$3,750
3EM15056AB	Dual Input Receiver (7125-7750 MHz)	\$6,250
3EM15057AB	Dual Input Receiver (7700-8500 MHz)	\$6,250
3EM04070AA	Power Amplifier +28 dBm (7125-7750 MHz)	\$3,400
3EM04070AB	Power Amplifier +28 dBm (7700-8500 MHz)	\$3,400
3EM04070AC	Power Amplifier +30 dBm (7125-7750 MHz)	\$5,400
3EM04070AD	Power Amplifier +30 dBm (7700-8500 MHz)	\$5,400
3EM04070AE	Power Amplifier +32 dBm (7125-7750 MHz)	\$8,400
3EM04070AF	Power Amplifier +32 dBm (7700-8500 MHz)	\$8,400
3DH04123AJ	Oscillator Board (118.7500 - 125.0000 MHz)	\$150
3DH04123AK	Oscillator Board (125.0000 - 130.0000 MHz)	\$150
3DH04123AL	Oscillator Board (130.0000 - 136.5000 MHz)	\$150
3DH04123AM	Oscillator Board (136.5000 - 142.7780 MHz)	\$150
155-xxxx-xxx*	Crystal (118.7500 - 141.6667 MHz)	\$75

10.00 - 10.7 and 10.7 - 11.7 GHz

Part Number	Description	
3DH03228AG	Transmitter (10000-10700 MHz)	\$3,000
3DH03228AH	Transmitter (10700-11200 MHz)	\$3,000
3DH03228AJ	Transmitter (11200-11700 MHz)	\$3,000
3EM16253AD	Dual Input Receiver (10000-10700 MHz)	\$6,500
3EM16253AE	Dual Input Receiver (10700-11200 MHz)	\$6,500
3EM16253AF	Dual Input Receiver (11200-11700 MHz)	\$6,500
3DH03231AN	Receiver (10000-10700 MHz)	\$3,250
3DH03231AP	Receiver (10700-11200 MHz)	\$3,250
3DH03231AQ	Receiver (11200-11700 MHz)	\$3,250
3DH04136AD	Power Amplifier +23 dBm (10550-10700 MHz)	\$2,850
3DH04136AE	Power Amplifier +23 dBm (10700-11200 MHz)	\$2,850
3DH04136AF	Power Amplifier +23 dBm (11200-11700 MHz)	\$2,850
3DH04136AA	Power Amplifier +27 dBm (10550-10700 MHz)	\$4,500
3DH04136AB	Power Amplifier +27 dBm (10700-11200 MHz)	\$4,500
3DH04136AC	Power Amplifier +27 dBm (11200-11700 MHz)	\$4,500
3DH04136AK	Power Amplifier +29 dBm (10000-10700 MHz)	\$6,500
3DH04136AG	Power Amplifier +29 dBm (10550-10700 MHz)	\$6,500
3DH04136AH	Power Amplifier +29 dBm (10700-11200 MHz)	\$6,500
3DH04136AJ	Power Amplifier +29 dBm (11200-11700 MHz)	\$6,500
3DH04123AM	Oscillator Board (136.5000 - 142.7780 MHz)	\$150
3DH04123AN	Oscillator Board (142.7780 - 149.3333 MHz)	\$150
3DH04123AP	Oscillator Board (149.3333 - 156.0000 MHz)	\$150
155-xxxx-xxx*	Crystal (140.6667 - 156.0000 MHz)	\$75

* Two part numbers, the oscillator board and the crystal, are required to define the Oscillator assembly. Both part numbers must be ordered to fulfill the oscillator assembly requirement. In the factory, the crystal will be mounted onto the oscillator to create the oscillator assembly board, which will be factory-tuned to the customer's desired operating frequency. A crystal part number is provided for reference only. For specific crystal part numbers, refer to the Network Engineering Drawing.

9500 MXC

Item No	Part Number	Description	Unit Sell
		Intelligent Node Unit - Indoor Unit Equipment	
1	3DB23005AA	INU, 4 universal slot chassis consisting of	
2	3DB23004AA	Network Controller Card (NCC)	\$1,540
3	3DB23002AA	Fan card	\$225
		1RU Shelf	\$980
4	3DB23005AA	INUe, 10 universal slot chassis consisting of	
5	3DB23004AA	Network Controller Card	\$1,540
6	3DB23003AA	Fan card X 2	\$450
		2RU Shelf	\$1,910
7	3DB23021AA	NODE PROTECTION CARD (NPC)	\$710
8	3DB23022AA	AUXILIARY & ALARM I/O OPTION CARD	\$625
		Digital Access Cards	
9	3DB23009AA	DAC 4X, 4DS1 access, RJ45 connectors	\$430
10	3DB23016AA	DAC 16X, 16DS1 access, RJ21 connectors	\$790
11	3DB23018AA	DAC 3xDS3, DS3 Transport, mini BNC connectors	\$1,150
12	3DB23010AA	DAC 3xDS3M, DS3 Multiplexer card with built-in 2xM13, mini BNC connectors	\$2,500
13	3DB23011AA	DAC 1XOC3, SM OPT, OC3 Optical transport	\$640
14	3DB23013AA	DAC 2xOC3, SM Opt, OC3 optical transport, dual OC3 per card	\$2,310
15	3DB23015AA	DAC 155oM, 1XOC3 muxed to 84DS1, OC3 multiplex card	\$3,080
16	3DB23017AA	DAC ES, 4 port 10/100 Ethernet card	\$1,000
17	3DB23118AA	DAC GE, Gigabit Ethernet, 3 10/100/1000 ports, 1 SFP LC Optical port	\$2,500
		Radio Access Cards	
18	3DB23019AB	RAC30 V3, QPSK to 128QAM	\$1,030
19	3DB23024AA	RAC40, X-Pole operation	\$2,362
20	3DB23020AA	RAC 3X, up to 256QAM	\$1,395
		Outdoor Unit equipment 11GHz	
21	3DB23215 - 14	ODU 300v2, 6 GHz	\$11,030
22	3DB23035	ODU 300v2, 11GHz	\$11,030
23	3DB23062	ODU 300v2, 18GHz	\$9,200
24	3DB23045	ODU 300v2, 23GHz	\$9,200
25	TBA	ODU 300v2, 38GHz	\$9,200
26	3CC58001AA	Pole mount for ODU or coupler, non integrated antenna configuration	\$104
27	3EM21370AA	ODU Rack Mount Bracket (verify distance limitation in this configuration with Alcatel-Lucent)	\$120
28	3CC58020AAAA	Coupler 6GHz UNEQL 6dB 2 X ODU Slip-Fit	\$1,014
29	3CC58017AAAA	Coupler 11GHz UNEQL 6dB 2 X ODU Slip-Fit	\$809
30	3CC58027AAAA	Coupler 18GHz UNEQL 6dB 2 X ODU Slip-Fit	\$809
31	3CC58014AAAA	Coupler 23GHz UNEQL 6dB 2 X ODU Slip-Fit	\$809
32	3CC58029AAAA	Coupler 38GHz UNEQL 6dB 2 X ODU Slip-Fit	\$1,014
		*Antennas are quoted separately	
		INU / INUe Software Licenses(single license required per INU / INUe)	
33	3DB23117AAAA	SW LICENSE, DS-1, 6RAC cards 16DS1 each	\$1
34	3DB23106AAAA	SW LICENSE, DS-1, 5RAC cards 16DS1 each, 1RAC card 32DS1	\$500
35	3DB23107AAAA	SW LICENSE, DS-1, 5RAC cards 16DS1 each, 1RAC card 70DS1	\$1,500
36	3DB23108AAAA	SW LICENSE, DS-1, 5RAC cards 16DS1 each, 1RAC card 100DS1	\$2,500
37	3DB23126AAAA	SW LICENSE, DS-1, 4RAC cards 16DS1 each, 2RAC cards 32DS1 each	\$1,000
38	3DB23127AAAA	SW LICENSE, DS-1, 4RAC cards 16DS1 each, 1RAC card 32DS1, 1RAC card 70DS1	\$2,000
39	3DB23128AAAA	SW LICENSE, DS-1, 4RAC cards 16DS1 each, 1RAC card 32DS1, 1RAC card 100DS1	\$3,000
40	3DB23129AAAA	SW LICENSE, DS-1, 4RAC ca16DS1 each, 2RAC 70DS1 each	\$3,000
41	3DB23130AAAA	SW LICENSE, DS-1, 4RAC cards 16DS1 each, 1RAC card 70DS1, 1RAC card 100DS1	\$4,000
42	3DB23131AAAA	SW LICENSE, DS-1, 4RAC cards 16DS1 each, 2RAC cards 100DS1 each	\$5,000
43	3DB23132AAAA	SW LICENSE, DS-1, 3RAC cards 16DS1 each, 3RAC cards 32DS1 each	\$1,500
44	3DB23133AAAA	SW LICENSE, DS-1, 3RAC cards 16DS1 each, 2RAC cards 32DS1 each, 1RAC 70DS1	\$2,500
45	3DB23134AAAA	SW LICENSE, DS-1, 3RAC cards 16DS1 each, 2RAC cards 32DS1 each, 1RAC 100DS1	\$3,500
46	3DB23135AAAA	SW LICENSE, DS-1, 3RAC cards 16DS1 each, 1RAC 32DS1, 2RAC cards 70DS1 each	\$3,500
47	3DB23136AAAA	SW LICENSE, DS-1, 3RAC cards 16DS1 each, 1RAC card 32DS1, 1RAC card 70DS1, 1RAC card 100DS1	\$4,500
48	3DB23137AAAA	SW LICENSE, DS-1, 3RAC cards 16DS1 each, 3RAC cards 70DS1 each	\$4,500
49	3DB23138AAAA	SW LICENSE, DS-1, 3RAC cards 16DS1 each, 2RAC cards 70DS1 each, 1RAC card 100DS1	\$5,500
50	3DB23139AAAA	SW LICENSE, DS-1, 2RAC cards 16DS1 each, 4RAC cards 32DS1 each	\$2,000
51	3DB23140AAAA	SW LICENSE, DS-1, 2RAC cards 16DS1 each, 3RAC cards 32DS1 each, 1RAC card 70DS1	\$3,000
52	3DB23141AAAA	SW LICENSE, DS-1, 2RAC cards 16DS1 each, 3RAC cards 32DS1 each, 1RAC card 100DS1	\$4,000
53	3DB23142AAAA	SW LICENSE, DS-1, 1RAC card 16DS1, 5RAC cards 32DS1 each	\$2,500
54	3DB23143AAAA	SW LICENSE, DS-1, 1RAC card 16DS1, 4RAC cards 32DS1 each, 1RAC card 70DS1	\$3,500
55	3DB23151AAAA	SW LICENSE, DS-1, 6RAC cards 32DS1 each	\$3,000
56	3DB23152AAAA	SW LICENSE, DS-1, 3RAC cards 16DS1 each, 3RAC cards 100DS1 each	\$7,500
57	3DB23153AAAA	SW LICENSE, DS-1, 2RAC cards 16DS1 each, 4RAC cards 100DS1 each	\$10,000
58	3DB23154AAAA	SW LICENSE, DS-1, 4RAC cards 70DS1 each, 2RAC cards 16DS1 each	\$6,000
59	3DB23155AAAA	SW LICENSE, DS-1, 2RAC cards 100DS1 each, 2RAC cards 70DS1 each, 2RAC cards 16DS1 each	\$8,000
60	3DB23109AAAA	SW LICENSE, DS3, 1RAC card 1DS3	\$500
61	3DB23158AAAA	SW LICENSE, DS3, 1RAC card 2DS3	\$1,500
62	3DB23110AAAA	SW LICENSE, DS3, 1RAC card 3DS3	\$2,500

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Item No	Part Number	Description	Unit Sell
63	3DB23147AAAA	SW LICENSE, DS3, 1RAC card 4DS3	\$3,000
64	3DB23144AAAA	SW LICENSE, DS3, 2RAC cards 1DS3 each	\$1,000
65	3DB23145AAAA	SW LICENSE, DS3, 2RAC cards 2DS3 each	\$3,000
66	3DB23146AAAA	SW LICENSE, DS3, 2RAC cards 3DS3 each	\$5,000
67	3DB23148AAAA	SW LICENSE, DS3, 2RAC cards 4DS3 each	\$6,000
68	3DB23111AAAA	SW LICENSE, OC3, 1RAC card 1-OC3	\$1,500
69	3DB23112AAAA	SW LICENSE, OC3, 1RAC card 2-OC3	\$3,000
70	3DB23149AAAA	SW LICENSE, OC3, 2RAC cards 1-OC3 each	\$3,000
71	3DB23150AAAA	SW LICENSE, OC3, 2RAC card 2-OC3 each	\$6,000
		Application Specific IDU - Indoor Unit Equipment	
72	3DB23049AA	IDU 300, 20 x DS1 (includes license)	\$2,100
73	3DB23025AA	IDU300 155o (includes license)	\$2,900
74	3DB23023AA	IDU Ethernet + 8 DS1 (1+0 only) choose license below	\$2,500
		IDU Software Licenses	
75	3DB23113AAAA	SW LICENSE, 50Mbps	\$500
76	3DB23114AAAA	SW LICENSE, 100Mbps	\$1,000
77	3DB23115AAAA	SW LICENSE, 150Mbps	\$1,500
78	3DB23116AAAA	SW LICENSE, 200Mbps	\$2,500
		Accessories	
79	1AC014320002	Coaxial Cable LMR-400 FR - price per foot	\$2
80	1AB095530024	N-type Connector Straight	\$20
81	1AB095530025	N-type Connector Right Angle	\$30
82	1AB350440001	LMR grounding kit	\$60
83	3CC50015AA	LIGHTNING ARREST 9913 INU/IDU&ODU ARREST	\$232
84	3CC52028AA	DS1 cable RJ21 to 8 wire-wrap, 2 m / 6 ft, used on DAC 16X qty 1 per 8 DS1 circuits	\$76
85	3CC52098AA	DS1 cable RJ21 to 8 wire-wrap, 5 m / 15ft, used on DAC 16X qty 1 per 8 DS1 circuits	\$90
86	3CC52055AA	DS1 cable RJ21 to 8 wire-wrap, 10m / 30ft, used on DAC 16X qty 1 per 8DS1 circuits	\$235
87	3CC52014AA	DS1 cable RJ45 to wire-wrap, 2m / 6ft, used on DAC 4X qty 1 per DS1 circuit	\$12
88	3CC52015AA	DS1 cable RJ45 to wire-wrap, 5m / 15ft, used on DAC 4X qty 1 per DS1 circuit	\$20
89	3CC52048AA	DS3 cable, SLIMLINE BNC to STND BNC, 2m / 6ft	\$55
90	3CC52051AA	DS3 cable, SLIMLINE BNC to STND BNC, 5m / 15ft	\$70
91	3CC52099AA	Y cable slimline BNC to BNC spltr/comb, required for protected DS3 DAC configurations	\$150
92	3CC52003AA	CABLE RAC INDOOR JUMPER SMA TO N TYPE 3M	\$120
93	3CC52004AA	RAC40 IF INTERCONNECT 35MM STACKED RAC40	\$27
94	3CC52010AA	RAC 40 IF INTERCONNECT KIT, SHORT	\$57
95	3CC52011AA	RAC 40 IF INTERCONNECT KIT, LONG	\$55
96	3CC52012AA	RAC40 IF INTERC 168MM SIDE BY SIDE RAC40	\$26
97	3CC52013AA	RAC40 IF INTERC 108MM SIDE BY SIDE RAC40	\$25
98	3CC52072AA	RAC40 IF INTERC 254MM SIDE BY SIDE RAC40	\$25
99	3CC52074AA	RAC 40 IF INUe to INUe, LONG INTERCO KIT	\$51
100	3CC52016AA	CABLE E1/DS1, BALANCED RJ45 TO RJ45 2M	\$4
101	3CC52019AA	CABLE E1/DS1 BALANCED RJ45 TO RJ45 5M	\$5
102	3CC52020AA	CABLE E1/DS1 RJ45 TO RJ45 CROSSOVER 2M	\$4
103	3CC52021AA	CABLE E1/DS1 RJ45 TO RJ45 CROSSOVER 5M	\$5
104	3CC52034AA	CABLE 8 MINI RJ21 TO 8 RJ45, 5M	\$366
105	3CC52037AA	CABLE 8 MINI RJ21 TO 8 RJ45 CROSSOVER 1M	\$252
106	3CC52044AA	CABLE 8MIN RJ21/MIN RJ21 DAC INTER 200MM	\$235
107	3CC52046AA	CABLE 8MIN RJ21 TO MIN RJ21 DAC INTER 1M	\$152
108	3CC52065AA	CABL E1/DS1, RJ45F/2RJ45M, Y CABLE, 0.1M	\$23
109	3CC52000AA	MAINT CABLE, RJ45 TO DB9 V.24 CABLE, 2M	\$10
110	3CC52001AA	MAINT CABLE, RJ45 TO DB9 V.24 CABLE, 5M	\$28
111	3CC52002AA	ALARM I/O, HD15, 5M, WIREWRAP	\$49
112	3CC52109AA	Aux cable HD26 asynch, wirewrap 2 m / 6 ft	\$90
113	3CC52110AA	Aux cable HD26 synch, wirewrap 2 m / 6 ft	\$60
114	3CC52005AA	ETHERNET CABLE, RJ45 TO RJ45, 2 METERS	\$3
115	3CC52006AA	ETHERNET CABLE, RJ45 TO RJ45, 5 METERS	\$14
116	3CC52007AA	ETHERNET CABLE, RJ45 TO RJ45, 15 METERS	\$33
117	3CC52008AA	ETHERNET CABLE, RJ45 TO RJ45, 30 METERS	\$23
118	3CC52009AA	EARTH STRAP ODU STAINL LUG 2M M6/UNTERM	\$19
119	3CC52077AA	FIBER 3M SM LC to LC	\$53
120	3CC52078AA	FIBER 5M SM LC to LC	\$55
121	3CC52079AA	FIBER 10M SM LC to LC	\$61
122	3CC52080AA	FIBER 3M SM LC to FC	\$50
123	3CC52081AA	FIBER 5M SM LC to FC	\$52
124	3CC52084AA	FIBER 10M SM LC to FC	\$58
125	3CC52083AA	FIBER 3M SM LC to SC	\$50
126	3CC52085AA	FIBER 5M SM LC to SC	\$52
127	3CC52086AA	FIBER 10M SM LC to SC	\$56
128	3CC52087AA	FIBER 3M SM LC to ST	\$49
129	3CC52088AA	FIBER 5M, SM FC-SC	\$40
130	3CC52017AA	FIBER 10M, SM FC-SC	\$46
131	3CC52023AA	FIBER 3M, SM SC-SC	\$36
132	3CC52025AA	FIBER 5M, SM SC-SC	\$36
133	3CC52029AA	FIBER 10M, SM SC-SC	\$41
134	3CC52093AA	FIBER 3M, SM, FC-SC	\$40

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Item No	Part Number	Description	Unit Sell
135	3CC52033AA	SPLITTER 2M SC-SC to FC	\$385
136	3CC52038AA	SPLITTER 2M SC-SC to LC	\$403
137	3CC52054AA	SPLITTER 2M SC-SC to SC	\$385
138	3CC52059AA	SPLITTER 2M SC-SC to ST	\$385
139	3CC52062AA	SPLITTER 4M SC-SC to LC	\$421
140	3CC52070AA	SPLITTER 4M SC-SC to ST	\$403
141	3CC52071AA	SPLITTER 4M SC-SC to SC	\$403
142	3CC52073AA	SPLITTER 2M LC-LC OUTPUT to FC INPUT	\$403
143	3CC52075AA	SPLITTER 2M LC-LC OUTPUT to SC INPUT	\$403
144	3CC52018AA	SPLITTER 2M LC-LC OUTPUT to LC INPUT	\$403
145	3CC52024AA	SPLITTER 2M LC-LC OUTPUT to ST INPUT	\$403
146	3CC52030AA	SPLITTER 4M LC-LC OUTPUT to FC INPUT	\$421
147	3CC52035AA	SPLITTER 4M LC-LC OUTPUT to SC INPUT	\$421
148	3CC52040AA	SPLITTER 4M LC-LC OUTPUT to LC INPUT	\$421
149	3CC52043AA	SPLITTER 4M LC-LC OUTPUT to ST INPUT	\$421
150	3CC52060AA	SPLITTER 4M SC-SC to FC	\$403
151	3CC50001AA	IDU SPARE FUSE, 5A, 250V, TIME-LAG, 5x20	\$1
152	3CC50002AA	NCCV1 SPAR FUSE 12.5A 250V TIME-LAG 5X20	\$1
153	3CC50004AA	NCC V2 SPARE FUSE 25A 3AB FAST (CERAMIC)	\$1
154	3CC50005AA	RAC 40 IF INU to INU, INTERCONNECT KIT	\$37
155	3CC50006AA	RAC 40 IF INUe to INUe, INTERCONNECT KIT	\$36
156	3CC50009AA	BGXZ ARREST BRACKET FOR MKII ODU	\$6
157	3CC50010AA	BGXZ ARRESTOR 2M GROUND LEAD	\$6
158	3CC50012AA	INU V1(IDC V1)INSTA KIT(INCL.WITH IDC V1)	\$55
159	3CC50013AA	INU V2/INUe INSTALLATION KIT	\$63
160	3CC50014AA	IDU INSTALLATION KIT (INCL. WITH IDU)	\$59
161	3CC50016AA	BGXZ ARRESTOR IDU/ODU POLYPHASER	\$175
162	3CC50017AA	BLANK PANEL ASSY, SINGLE SLOT	\$51
9500 MXC Site total			

Terms and Conditions

1. This quotation is valid for a period of thirty days from the date of issue.

2. Prices are in USD, FOB Longview Texas and do not include freight charges, duties or taxes, which are the customer's responsibility.

3. All quotations and orders are subject to Alcatel's Standard Terms and Conditions of Sales applicable to the products or services included in the quotation unless otherwise agreed in writing.

4. Payment Terms: thirty days from date of invoice.

5. Shipping Terms: FOB Longview Texas.

6. Delivery Times: As agreed in writing, and in the absence of agreement will be subject to Alcatel's standard current lead times.

7. Errors and Omissions excepted.

8. Please reference this proposal number when ordering.

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Item No	Part Number	Description	Unit Sell
RACKS			
1	694-9000-006	Standard Rack, 7' tall, 19" wide	\$450
2	695-0905-003	Standard Rack, 7' tall, 23" wide	\$500
3	019-0429-010	Seismic Rack, 7.0'	\$565
4	694-8873-005	Adapters for 23", 2 RU (PDU two required)	\$30
5	690-1125-003	Rack Extension Kit - 19" rack	\$230
6	690-1125-005	Rack Extension Kit (23 inch rack) added	\$230
7	3EM13317AA	Power Distribution Panel	\$455
8	690-4373-001	Kit AC Outlet	\$105
SUBRACK			
9	3EM22715AA	9500 MPR Shelf Kit	\$1,500
10	3DB18163AB	MSS Slot Cover - Blank Plate 1/2H	\$41
SUBRACK - Spares			
11	3DB18485AA	9500 MPR R1.0 2RU 8 SLOT SHELF	\$882
12	3DB18134BA	MSS Fan Unit	\$277
13	3DB18271AA	Power Supply Cable (2 per Shelf)	\$121
MSS MODULES			
14	3DB18209AB	Core Module w 5 GbE ports (CORE-B)	\$2,464
15	3DB18136AC	MOD 300 Modem Module	\$3,402
16	3DB18126AD	32xT1 TDM Module	\$2,030
17	3DB18194AB	2xD53 TDM Module	\$2,075
ODU L6 GHz, 252.04 MHz spacing (V2)			
18	3DB23215AA	5930-6020MHZ, HP, TX LOW	\$11,030
19	3DB23215AD	6182-6272MHZ, HP TX HIGH	\$11,030
20	3DB23215AB	5989-6079MHZ, HP, TX LOW	\$11,030
21	3DB23215AE	6241-6331MHZ, HP, TX HIGH	\$11,030
22	3DB23215AC	6078-6168MHZ, HP, TX LOW	\$11,030
23	3DB23215AF	6330-6420MHZ, HP, TX HIGH	\$11,030
ODU U6 GHz, 160 MHz spacing (V2)			
24	3DB23214AA	6540-6610MHZ, HP, TX LOW	\$11,030
25	3DB23214AB	6710-6780MHZ, HP, TX HIGH	\$11,030
26	3DB23214AC	6590-6660MHZ, HP, TX LOW	\$11,030
27	3DB23214AD	6760-6830MHZ, HP, TX HIGH	\$11,030
28	3DB23214AE	6640-6710MHZ, HP, TX LOW	\$11,030
29	3DB23214AF	6800-6870MHZ, HP, TX HIGH	\$11,030
ODU U6 GHz, 340 MHz spacing (V2)			
30	3DB23216AA	6430-6590 MHz, HP, TX LOW	\$11,030
31	3DB23216AB	6770-6930 MHz, HP, TX HIGH	\$11,030
32	3DB23216AC	6515-6675 MHz, HP, TX LOW	\$11,030
33	3DB23216AD	6855-7015 MHz, HP, TX HIGH	\$11,030
ODU 11 GHz, 500-490 MHz spacing			
34	3DB23035AA	10675-10835MHZ, TX LOW	\$11,030
35	3DB23035AE	11200-11345MHZ, TX HIGH	\$11,030
36	3DB23035AB	10795-10955MHZ, TX LOW	\$11,030
37	3DB23035AF	11310-11465MHZ, TX HIGH	\$11,030
38	3DB23035AC	10915-11075MHZ, TX LOW	\$11,030
39	3DB23035AG	11430-11585MHZ, TX HIGH	\$11,030
40	3DB23035AD	11035-11200MHZ, TX LOW	\$11,030
41	3DB23035AH	11550-11705MHZ, TX HIGH	\$11,030
ODU 18 GHz, 1560 MHz spacing			
42	3DB23062AC	17700-18060 TX LO	\$9,200
43	3DB23062AD	19260-19620 TX Hi	\$9,200
ODU ANTENNA			
44	3CC56003AA	D.M. ANTENNA 5.92-6.425GHz-1.2 M-HPLP-R	\$2,140
45	3CC56004AA	D.M. ANTENNA 5.92-6.425GHz-1.8 M-HPLP-R	\$3,840
46	3CC56005AA	D.M. ANTENNA 6.425-7.125GHz-1.2 M-HPLP-R	\$2,140
47	3CC56006AA	D.M. ANTENNA 6.425-7.125GHz-1.8 M-HPLP-R	\$3,840
48	3CC56012AA	D.M. ANTENNA 10.5-11.7GHz-0.6 M-HPLP-R	\$630
49	3CC56013AA	D.M. ANTENNA 10.5-11.7GHz-0.9 M-HPLP-R	\$1,552
50	3CC56014AA	D.M. ANTENNA 10.5-11.7GHz-1.2 M-HPLP-R	\$1,848
51	3CC56015AA	D.M. ANTENNA 10.5-11.7GHz-1.8 M-HPLP-R	\$3,990
52	3CC56039AA	D.M. ANTENNA 17.7-19.7GHz-0.3 M-HPLP-R	\$474
53	3CC56047AA	D.M. ANTENNA 17.7-19.7GHz-0.6 M-HPLP-R	\$630
54	3CC56052AA	D.M. ANTENNA 17.7-19.7GHz-0.9 M-HPLP-R	\$1,298
55	3CC56058AA	D.M. ANTENNA 17.7-19.7GHz-1.2 M-HPLP-R	\$1,848
56	3CC56063AA	D.M. ANTENNA 17.7-19.7GHz-1.8 M-HPLP-R	\$3,990
57	3CC58020AA	Coupler 6GHz UNEQL 6dB 2 X ODU Slip-Fit	\$1,014
58	3CC58017AA	Coupler 11GHz UNEQL 6dB 2 X ODU Slip-Fit	\$809



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59	3CC58027AA	Coupler 18GHz UNEQL 6dB 2 X ODU Slip-Fit	\$809
60	3CC58001AA	Pole mount for ODU or coupler, non integrated antenna configuration	\$104
61	3EM21370AA	ODU Rack Mount Bracket (verify distance limitation in this configuration with Alcatel-Lucent)	\$120
SOFTWARE			
62	3EM23052AAAA	9500 MPR R1.0 SW License/CD	\$1,000
63	3EM23065AAAA	9500 MPR R1.0 CT License (Per PC Installed)	\$500
64	3EM23055AAAA	9500 MPR R1.0 Flash Card (1 per CORE)	\$100
RTU's - per ODU or RF Transceiver			
65	3EM23068AAAA	RTU 40Mbps TRX Capacity	\$75
66	3EM23068ABAA	RTU 80Mbps TRX Capacity	\$500
67	3EM23068ACAA	RTU 120Mbps TRX Capacity	\$2,000
68	3EM23068ADAA	RTU 160Mbps TRX Capacity	\$3,500
69	3EM23068AEAA	RTU 320Mbps TRX Capacity	\$5,000
DOCUMENTATION (1 Per NE)			
70	3EM22841AAAA	9500 MPR 1.0 O&M Manual CD-ROM	\$90
71	3EM22842AA	9500 MPR 1.0 User Manual (Paper)	\$90
DS1 Cables/Supplies			
72	1AF15245AB	32 E1/T1 Protection Panel - RJ45	\$727
73	3DB16102AA	32 E1/T1 Protection Panel - D-Connector	\$647
74	3DB16109AA	D-Connector Rack Mount Bracket	\$42
75	3CC52118AA	E1/T1 SCSI-SCSI Interface Cable (16 T1/E1 per Cable)	\$133
76	3EM21339AA	16 DS1 Cable Stub (SCSI-Open) 25' Main Side	\$268
77	3EM21339AB	16 DS1 Cable Stub (SCSI-Open) 25' Spare Side	\$268
78	3EM21339AC	16 DS1 Cable Stub (SCSI-Open) 50' Main Side	\$482
79	3EM21339AD	16 DS1 Cable Stub (SCSI-Open) 50' Spare Side	\$482
80	3EM23110AA	16 DS1 Cable Assembly (D-Open) 15'	\$140
81	3EM23110AB	16 DS1 Cable Assembly (D-Open) 30'	\$224
82	3EM23110AC	16 DS1 Cable Assembly (D-Open) 50'	\$268
83	3EM23110AD	16 DS1 Cable Assembly (D-Open) 100'	\$600
DS3 Cables/Supplies			
84	3EM22900AA	DS3 Protection Splitter	\$150
85	3EM22687AA	DS3 BNC to Mini-BNC Cable - 2 Meter	\$50
86	3EM22687AB	DS3 BNC to Mini-BNC Cable - 5 Meter	\$109
Sync Cables			
87	3DB05850AA	9500 MPR Sync Cable	\$17
Ethernet Cables/Supplies			
88	3EM15052AA	Data Cables, RJ45, 3 ft	\$40
89	3EM15052AD	Data Cables, RJ45, 6 ft	\$45
90	3EM15052AH	Data Cables, RJ45, 10 ft	\$50
91	3EM15052AN	Data Cables, RJ45, 20 ft	\$55
92	3EM15052AQ	Data Cables, RJ45, 30 ft	\$60
93	3EM15052AU	Data Cables, RJ45, 50 ft	\$90
94	3EM15052AY	Data Cables, RJ45, 70 ft	\$120
95	3EM15052BB	Data Cables, RJ45, 100 ft	\$150
96	3EM15052BC	Data Cables, RJ45, 200 ft	\$250
97	3EM15052BD	Data Cables, RJ45, 300 ft	\$350
ODU Coax Supplies			
98	3CC50074AA	KIT SUPPORT FOR 3 CORDS N/QMA IDU	\$16
99	3DB18205AA	QMA(M)-N(F) RF CABLE 12"	\$69
100	TBD	QMA(M)-N(F) RF CABLE 9'	\$177
101	1AC014320002	Coaxial Cable LMR-400 FR - price per foot	\$2
102	1AB095530024	Connector Straight	\$20
103	1AB095530045	Connector N PPC Straight Male	\$36
104	1AB095530044	Connector N PPC Right Angle Male	\$59
105	1AB383930001	Compression Tool	\$747
106	1AB095530025	Connector Right Angle	\$30
107	1AB350440001	LMR grounding kit	\$60
108	3CC50015AA	LIGHTNING ARREST 9913 INU/IDU&ODU ARREST	\$232