



THE FUTURE OF BUSINESS COMMUNICATION, DELIVERED TODAY

MOTOTRBO™ DIGITAL TWO-WAY RADIO REPEATERS

Make technology more productive and personal. You asked for a forward-thinking way to connect your people to their work, wherever they go. An innovative business tool that increases their efficiency while lowering your costs. Versatile and powerful, MOTOTRBO combines the best of two-way radio functionality with the latest digital technology. It integrates voice and data seamlessly, offers enhanced features that are easy to use and delivers increased capacity to meet your communication needs from the field to the factory floor. With exceptional voice quality and long battery life, MOTOTRBO keeps your work teams connected when communication is a must.

HIGH-POWERED PERFORMANCE

Because MOTOTRBO uses TDMA digital technology, it delivers integrated voice and data, twice the calling capacity plus clearer voice communications. When it comes to battery performance, MOTOTRBO radios operate 40 percent longer between recharges compared to analog. In fact, the leading-edge IMPRES™ technology in our batteries, chargers and audio accessories also ensures longer talk time and clearer audio.

INDUSTRY-LEADING APPLICATIONS

Motorola's Application Developer Program offers customized data applications so you can adapt your radios to your unique business needs. Because we've created the largest developer program in the industry, we can provide nimble applications that address your challenges and answer your objectives – from work order ticket management to network management, email gateways to location tracking, dispatch consoles to telephony integration, and beyond.

Whether you want to send text messages or track work order information, pinpoint work crew locations with integrated GPS or manage your fleet from a central dispatch location, MOTOTRBO™ paves the way – with customizable data applications on one convenient device.

ADDED FUNCTIONALITY

MOTOTRBO offers added functionality, including dispatch capability with the MIP 5000 VoIP console, enhanced call signaling, basic and enhanced privacy-scrambling, option board expandability and compatibility with SCADA solutions for utility and public service monitoring and alarms. Plus digital telephone interconnect capability to enable communication between radios and landline or mobile phones as well as a transmit interrupt suite – with voice interrupt, emergency voice interrupt or data over voice interrupt – to prioritize critical communication the moment you need it.

EXPANDED CAPACITY AND COVERAGE

Your workforce is hard at work every day – picking up loads, making road repairs, providing security, responding to guest requests or restoring power after a storm. That's why you need the proven performance of MOTOTRBO radio systems for non-stop communication no matter the size of your workforce, no matter where they go.

MOTOTRBO's IP Site Connect dramatically improves customer service and productivity by using the Internet to extend coverage to users anywhere in the world. Our

scalable, single-site Capacity Plus solution expands capacity to over 1,000 users without adding new frequencies. Connect Plus multi-site digital trunking enables you to accommodate the high volume, wide area communication your business requires. Whether you need coverage at a single site or across multiple sites, MOTOTRBO can be scaled to meet your needs.

MIGRATE AT YOUR OWN PACE

Keeping operations running smoothly during a change in communication systems is vital to your business. It's easy to migrate to digital with MOTOTRBO because radios operate in analog and digital mode while the dynamic mixed mode repeater functionality streamlines automatic switching between analog and digital calls. So you can begin using MOTOTRBO radios and repeaters on your existing analog system, and when your time and budget allow you can begin migrating to digital at your own pace.

RELIABLE DURABILITY

MOTOTRBO repeaters are backed by a two-year Standard Warranty.



PRODUCT SPEC SHEET
MOTOTRBO™ XPR™ 8400 REPEATER

GENERAL SPECIFICATIONS

	XPR 8400		
	VHF	UHF Band I	UHF Band II
Channel Capacity	1		
Typical RF Output: Low Power High Power	1-25 W 25-45 W	1-25 W 25-40 W	— 1-40 W
Frequency	136-174 MHz	403-470 MHz	450-512 MHz
Dimensions	5.22 in H x 19 in W x 11.67 in L (132.6 mm H x 482.6 mm W x 296.5 mm L)		
Weight	31 lbs. (14 kg)		
Voltage Requirements	100-240 V AC (13.6 V DC)		
Current Drain During Standby: Low Power High Power	1 A (1 A DC typical) 1 A (1 A DC typical)		
Current Drain During Transmit: Low Power High Power	3 A (7.5 A DC typical) 4 A (12 A DC typical)		
Operating Temperature Range	-30°C to +60°C		
Max Duty Cycle	100%		
FCC Description	1-25 W: ABZ99FT3026 25-45 W: ABZ99FT3025	1-25 W: ABZ99FT4026 25-40 W: ABZ99FT4025	1-40 W: ABZ99FT4027
IC Description	1-25 W: 109AB-99FT3026 25-45 W: 109AB-99FT3025	1-25 W: 109AB-99FT4026 25-40 W: 109AB-99FT4025	1-40 W: 109AB-99FT4027

RECEIVER

Frequencies	136-174 MHz	403-470 MHz	450-512 MHz
Channel Spacing	12.5 kHz / 25 kHz*		
Frequency Stability (-30° C, +60° C, +25° C)	+/- 0.5 ppm		
Analog Sensitivity (12dB SINAD)	0.30 uV 0.22 uV (typical)		
Digital Sensitivity	5% BER: 0.3 uV		
Intermodulation (TIA603C)	78 dB	75 dB	
Adjacent Channel Selectivity: TIA603 TIA603C	65 dB @ 12.5 kHz, 80 dB @ 25 kHz* 50 dB @ 12.5 kHz, 80 dB @ 25 kHz*	65 dB @ 12.5 kHz, 75 dB @ 25 kHz* 50 dB @ 12.5 kHz, 75 dB @ 25 kHz*	
Spurious Rejection (TIA603C)	80 dB	75 dB	
Audio Distortion @ Rated Audio	3% (typical)		
Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz*		
Audio Response	TIA603C		
Conducted Spurious Emission (TIA603C)	-57 dBm		

TRANSMITTER

Frequencies	136-174 MHz	403-470 MHz	450-512 MHz
Channel Spacing	12.5 kHz / 25 kHz*		
Frequency Stability (-30° C, +60° C, +25° C Ref.)	+/- 0.5 ppm		
Low Power Output	1-25 W	1-25 W	—
High Power Output	25-45 W	25-40 W	1-40 W
Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz +/- 5.0 kHz @ 25 kHz*		
FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz*		
Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz		
Adjacent Channel Power	60 dB @ 12.5 kHz 70 dB @ 25 kHz*		
Audio Response	TIA603C		
Audio Distortion	3%		
FM Modulation	12.5 kHz: 11K0F3E 25 kHz*: 16K0F3E		
4FSK Digital Modulation	12.5 kHz Data Only: 7K60FXD 12.5 kHz Data & Voice: 7K60FXE		
Digital Vocoder Type	AMBE +2™		
Digital Protocol	ETSI TS 102 361-1, -2, -3		

*25 kHz will not be available on new equipment in the U.S. after 1/1/2013.
 Specifications subject to change without notice. All specifications shown are typical.
 Repeater meets applicable regulatory requirements. Version 1 01/11

PRODUCT SPEC SHEET
MOTOTRBO™ XPR™ 8380 REPEATER

GENERAL SPECIFICATIONS

		TRANSMITTER			
	XPR 8380		XPR 8380		
	800/900 MHz		800/900 MHz		
Channel Capacity	1				
Typical RF Output	10–35 W (806-870 MHz)	Frequencies	851-870 MHz 935-941 MHz		
	10–30 W (896-941 MHz)	Channel Spacing	12.5 kHz / 25 kHz		
Frequency	806–941 MHz	Frequency Stability (-30° C, +60° C, +25° C Ref.)	+/- 0.1 ppm		
Dimensions	5.22 in H x 19 in W x 11.67 in L (132.6 mm H x 482.6 mm W x 296.5 mm L)	Power Output	10–35 W : 851-870 MHz / 10–30 W : 935-941 MHz		
Weight	31 lbs (14 kg)	Modulation Limiting	+/- 2.5 kHz @ 12.5 kHz +/- 5.0 kHz @ 25 kHz		
Voltage Requirements	100–240 V AC 47–63 Hz (13.6 V DC)	Digital Modulation Fidelity (4FSK)	FSK Error 5% FSK Magnitude 1%		
Current Drain During Standby	1.0 A (100 V AC) 0.5 A (240 V AC) 1.0 A (typical)(13.4 V DC)	FM Hum and Noise	-40 dB @ 12.5 kHz -45 dB @ 25 kHz		
Current Drain During Transmit Low Power	3.0 A (100 V AC) 1.5 A (240 V AC) 10 A (typical)(13.4 V DC)	Conducted / Radiated Emission	-36 dBm < 1 GHz -30 dBm > 1 GHz		
Current Drain During Transmit High Power	4.0 A (100 V AC) 1.8 A (240 V AC) 12 A (typical)(13.4 V DC)	Adjacent Channel Power	-50 dB @ 12.5 kHz -60 dB @ 25 kHz		
Operating Temperature Range	-30°C to +60°C	Audio Response	TIA603C		
Max Duty Cycle	100%	Audio Distortion	3%		
FCC Description	10–35 W: ABZ99FT6001	FM Modulation	12.5 kHz: 11K0F3E 25 kHz: 16K0F3E		
IC Description	10–35 W: 109AB-99FT6001	4FSK Digital Modulation	12.5 kHz Data Only: 7K60FXD 12.5 kHz Data & Voice: 7K60FXE		
RECEIVER		Digital Vocoder Type	AMBE +2™		
Frequencies	806-825 MHz 896-902 MHz	Digital Protocol	ETSI TS 102 361-1 ETSI TS 102 361-2 ETSI TS 102 361-3		
Channel Spacing	12.5 kHz / 25 kHz for 800 MHz 12.5 kHz only for 900 MHz	ONLY THE FOLLOWING FREQUENCIES ARE SUPPORTED BY THE XPR 8380			
Frequency Stability (-30° C, +60° C)	+/- 0.1 ppm	Band	Receive	Transmit	
Analog Sensitivity (12dB SINAD)	0.22 uV (typical)	800 MHz	806.0125	821.0125	851.0125 866.0125
Digital Sensitivity	5% BER: 0.3 uV 0.22 uV (typical)		806.5125	821.5125	851.5125 866.5125
Intermodulation (TIA603C)	78 dB		807.0125	822.0125	852.0125 867.0125
Adjacent Channel Selectivity TIA603 TIA603C	65 dB @ 12.5 kHz, 75 dB @ 25 kHz 50 dB @ 12.5 kHz, 75 dB @ 25 kHz		807.5125	822.5125	852.5125 867.5125
Spurious Rejection (TIA603C)	75 dB		808.0125	823.0125	853.0125 868.0125
Audio Distortion @ Rated Audio	3% (typical)		809.000 - 820.9875	824.000 - 825.000	854.000 - 865.9875 869.000 - 870.000
Hum and Noise	-45 dB @ 12.5 kHz -45 dB @ 25 kHz	900 MHz	896.000 - 902.000*		935.000 - 941.000*
Audio Response	TIA603C				
Conducted Spurious Emission (TIA603C)	-57 dBm				

Specifications subject to change without notice. All specifications shown are typical.
Repeater meets applicable regulatory requirements. Version 2 07/10

PRODUCT SPEC SHEET
MTR3000 BASE STATION/REPEATER UHF SPECIFICATIONS

GENERAL SPECIFICATIONS

	T3000A - MTR3000	T2003A - UPGRADE KIT FOR MTR2000 STATIONS
Number of Frequencies	Up to 16	
Modulation	FM & 4FSK	
Frequency Generation	Synthesized	
Channel Spacing Analog / Digital	12.5 kHz, 25 kHz / 12.5 kHz (6.25e compliant)	
Mode of Operation	Simplex / Semi-Duplex / Duplex	
Temperature Range	-30°C to +60°C	
Antenna Connectors	Transmit and Receive, Type "N" Female	
AC Operation	85-264 VAC, 47-63 Hz	
DC Operation	28.6 VDC (25.7-30.7 VDC full rated output power)	
Dimensions	5.25 in H x 19 in W x 16.5 in L 133 mm H x 483 mm W x 419 mm L	
Weight	40 lbs (19 kg)	

UHF INPUT CURRENT (T3000A)

	AC Line 117 Volts / 220 Volts	28 VDC D/C Battery Revert, Neg. Gnd.
100 W Standby	0.4A / 0.4A	0.8A
100 W Transmit	3.3A/ 1.8A	11.5A

RECEIVER (UHF)

Frequencies	403-470, 450-524 MHz	403-470 MHz
Selectivity (TIA603) 25 kHz / 12.5 kHz	80 dB (86 dB typical) / 75 dB (78 dB typical)	
Selectivity (TIA603D) 25 kHz / 12.5 kHz	75 dB (85 dB typical) / 45 dB (60 dB typical)	
Analog Sensitivity 12dB SINAD	0.30 uV (0.22 uV typical)	
Digital Sensitivity 5% BER	0.30 uV (0.20 uV typical)	
Signal Displacement Bandwidth 25 kHz / 12.5 kHz	2 kHz / 1 kHz	
Intermodulation Rejection 25 kHz and 12.5 kHz	85 dB	
Spurious and Image Response Rejection	85 dB (typical 95 dB)	
Audio Response	+1,-3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line output	
Audio Distortion	Less than 3% (1.5% typical) at 1000 Hz, 60% RSD	
Line Output	330 mV (RMS) @ 60% RSD	
FM Hum and Noise (750 µs de-emphasis) 25 kHz / 12.5 kHz	50 dB nominal / 45 dB nominal	
RF Input Impedance	50 Ohms	

TRANSMITTER (UHF)

Frequencies	403-470, 470-524 MHz	403-435, 435-470 MHz
Power Output (Continuous Duty)	8-100 watts	2-30/40 watts; 25-100 watts
Electronic Bandwidth	Full Band	
Output Impedance	50 Ohms	
Intermodulation Attenuation	55 dB	40 dB for 40W and 100W stations; 70 dB for 30W station
Maximum Deviation (RSD) 25 kHz / 12.5 kHz	±5 kHz / ±2.5 kHz	
Audio Sensitivity	60% RSD @ 80 mV RMS	
Spurious and Harmonic Emissions Attenuation	90 dB	85 dB
FM Hum and Noise (750 µs de-emphasis) 25 kHz / 12.5 kHz	50 dB nominal, 45 dB nominal	
Frequency Stability (for temperature and aging variation)	1.5 PPM/External Ref (optional)	
Audio Response	+1,-3 dB from 6 dB per octave pre-emphasis; 300-3000 Hz referenced to 1000 Hz at line output	
Audio Distortion	Less than 3% (1% typical) at 1000 Hz; 60% RSD	
Emission Designators	FM Modulation: 12.5 kHz: 11K0F3E; 25 kHz: 16K0F3E 4FSK Modulation: 12.5 kHz - Data Only: 7K60FXD; 12.5 kHz - Data & Voice: 7K60FXE	

FCC TYPE ACCEPTANCE

Frequency Range in MHz	Model	Type	Power Output in Watts	US Type Acceptance Number
406.1 - 470	T3000A	Transmitter	8-100	ABZ89FC4823
403 - 470	T3000A	Receiver	N/A	ABZ89FR4824
470 - 512	T3000A	Transmitter	8-100	ABZ89FC4825
450 - 512	T3000A	Receiver	N/A	ABZ89FR4826
406.1 - 470	T2003A	Transmitter	25 - 100	ABZ89FC4827
406.1 - 470	T2003A	Transmitter	2 - 30/40	ABZ89FC4829
403 - 470	T2003A	Receiver	N/A	ABZ89FR4828

Industry Canada Approval: IC ID 109AB-T3000; IC model T3000-UHFR1
Specifications per TIA/EIA 603D unless otherwise noted
Product meets ETSI 300-086 & ETSI 300-113
CE Marked; RoHS compliant; UL Listed
Digital Protocol ETSI 102 361-1, -2, -3; AMBE +2™ Vocoder
25 kHz will not be available on new equipment in the U.S. after 1/1/2013.
Specifications subject to change without notice. Version 3 12/10

PRODUCT SPEC SHEET
MTR3000 BASE STATION/REPEATER VHF SPECIFICATIONS

GENERAL SPECIFICATIONS

	T3000A - MTR3000	T2003A - UPGRADE KIT FOR MTR2000 STATIONS
Number of Frequencies	Up to 16	
Modulation	FM & 4FSK	
Frequency Generation	Synthesized	
Channel Spacing Analog / Digital	12.5 kHz, 25 kHz / 12.5 kHz (6.25e compliant)	
Mode of Operation	Simplex / Semi-Duplex / Duplex	
Temperature Range	-30°C to +60°C	
Antenna Connectors	Transmit and Receive, Type "N" Female	
AC Operation	85-264 VAC, 47-63 Hz	
DC Operation	28.6 VDC (25.7-30.7 VDC full rated output power)	
Dimensions	5.25 in H x 19 in W x 16.5 in L 133 mm H x 483 mm W x 419 mm L	
Weight	40 lbs (19 kg)	

VHF INPUT CURRENT (T3000A)

	AC Line 117 Volts / 220 Volts	28 VDC D/C Battery Revert, Neg. Gnd.
100 W Standby	0.4A / 0.4A	0.8A
100 W Transmit	3.5A/ 1.9A	12.2A

RECEIVER (VHF)

Frequency	136-174 MHz	
Selectivity (TIA603) 25 kHz / 12.5 kHz	80 dB (90 dB typical) / 75 dB (82 dB typical)	
Selectivity (TIA603D) 25 kHz / 12.5 kHz	80 dB (90 dB typical) / 50 dB (60 dB typical)	
Analog Sensitivity 12dB SINAD	0.30 uV (0.22 uV typical)	
Digital Sensitivity 5% BER	0.30 uV (0.20 uV typical)	
Signal Displacement Bandwidth 25 kHz / 12.5 kHz	2 kHz / 1 kHz	
Intermodulation Rejection 25 kHz and 12.5 kHz	85 dB	
Spurious and Image Response Rejection	85 dB (95 dB typical)	
Audio Response	+1,-3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line output	
Audio Distortion	Less than 3% (1% typical) at 1000 Hz; 60% RSD	
Line Output	330 mV (RMS) @ 60% RSD	
FM Hum and Noise (750 µs de-emphasis) 25 kHz / 12.5 kHz	50 dB (56 dB typical) / 45 dB (52 dB typical)	
RF Input Impedance	50 Ohms	

TRANSMITTER (VHF)

Frequencies	136-174 MHz	136-154, 150-174 MHz
Power Output (Continuous Duty)	8-100 watts	1-30/40 watts, 25-100 watts
Electronic Bandwidth	Full Band	
Output Impedance	50 Ohms	
Intermodulation Attenuation	55 dB	40 dB for 40W and 100W stations; 70 dB for 30W station
Maximum Deviation (RSD) 25 kHz / 12.5 kHz	±5 kHz / ±2.5 kHz	
Audio Sensitivity	60% RSD @ 80 mV RMS	
Spurious and Harmonic Emissions Attenuation	90 dB	85 dB
FM Hum and Noise (750 µs de-emphasis) 25 kHz / 12.5 kHz	50 dB (55 dB typical) / 45 dB (52 dB typical)	
Frequency Stability (for temperature and aging variation)	1.5 PPM/External Ref (optional)	
Audio Response	+1,-3 dB from 6 dB per octave pre-emphasis; 300-3000 Hz referenced to 1000 Hz at line output	
Audio Distortion	Less than 3% (1% typical) at 1000 Hz; 60% RSD	
Emission Designators	FM Modulation: 12.5 kHz: 11K0F3E; 25 kHz: 16K0F3E 4FSK Modulation: 12.5 kHz - Data Only: 7K60FXD; 12.5 kHz - Data & Voice: 7K60FXE	

FCC TYPE ACCEPTANCE

Frequency Range in MHz	Model	Type	Power Output in Watts	US Type Acceptance Number
136-174	T3000A	Transmitter	8-100	ABZ89FC3793
136-174	T3000A	Receiver	N/A	ABZ89FR3794
136-174	T2003A	Transmitter	25-100	ABZ89FC3795
136-174	T2003A	Receiver	N/A	ABZ89FR3796
136-174	T2003A	Transmitter	1-30 / 40	ABZ89FC3797

Industry Canada Approval: IC ID 109AB-3793; IC model T3000-VHF
Specifications per TIA/EIA 603D unless otherwise noted
Product meets ETSI 300-086 & ETSI 300-113
CE Pending; RoHS compliant; UL Listed
Digital Protocol ETSI 102 361-1, -2, -3; AMBE +2™ Vocoder
25 kHz will not be available on new equipment in the U.S. after 1/1/2013.
Specifications subject to change without notice. Version 3 12/10

PRODUCT SPEC SHEET
MTR3000 BASE STATION/REPEATER 800/900 MHZ SPECIFICATIONS

GENERAL SPECIFICATIONS

	T3000A - MTR3000	T2003A - UPGRADE KIT FOR MTR2000 STATIONS
Number of Frequencies	Up to 16	
Modulation	FM & 4FSK	
Frequency Generation	Synthesized	
Channel Spacing Analog / Digital	12.5 kHz, 25 kHz / 12.5 kHz (6.25e compliant)	
Mode of Operation	Semi-Duplex / Duplex	
Temperature Range	-30°C to +60°C	
Antenna Connectors	Transmit and Receive, Type "N" Female	
AC Operation	85-264 VAC, 47-63 Hz	
DC Operation	28.6 VDC (24.7 - 30.7 VDC full rated output power)	
Dimensions	5.25 in H x 19 in W x 16.5 in L 133 mm H x 483 mm W x 419 mm L	
Weight	40 lbs (19 kg)	

800/900 MHZ INPUT CURRENT (T3000A)

	AC Line 117 Volts / 220 Volts	28 VDC D/C Battery Revert, Neg. Gnd.
100 W Standby	0.4A / 0.4A	0.8A
100 W Transmit	3.4A/ 1.9A	12.0A

RECEIVER (800/900 MHz)

Frequencies	806 - 825 & 896 - 902 MHz	806 - 825, 896 - 902 MHz
Selectivity (TIA603): 800MHz: 25 kHz, 12.5 kHz / 900 MHz: 12.5 kHz	85 dB , 75 dB / 75 dB	
Selectivity (TIA603D): 800MHz: 25 kHz, 12.5 kHz / 900 MHz: 12.5 kHz	80 dB (87 dB typical), 55 dB (62 dB typical) / 55 dB (62 dB typical)	
Analog Sensitivity 12dB SINAD	0.28 uV (0.21 uV typical)	
Digital Sensitivity 5% BER	0.28 uV	
Signal Displacement Bandwidth: 800MHz: 25 kHz, 12.5 kHz / 900 MHz: 12.5 kHz	2 kHz, 1 kHz / 1 kHz	
Intermodulation Rejection: 800MHz: 25 kHz, 12.5 kHz / 900 MHz: 12.5 kHz	90 dB	
Spurious and Image Response Rejection	85 dB (typical 95 dB)	
Audio Response	+1,-3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line output	
Audio Distortion	Less than 3% (1.5% typical) at 1000 Hz, 60% RSD	
Line Output	330 mV (RMS) @ 60% RSD	
FM Hum and Noise (750 μ s de-emphasis): 800MHz: 25 kHz, 12.5 kHz / 900 MHz: 12.5 kHz	50 dB nominal, 45 dB nominal / 45 dB nominal	
RF Input Impedance	50 Ohms	

TRANSMITTER (800/900 MHz)

Frequencies	851 - 870 & 935 - 941 MHz	851 - 870, 935 - 941 MHz
Power Output (Continuous Duty)	8-100 watts	20-75 watts
Electronic Bandwidth	Full Band	
Output Impedance	50 Ohms	
Intermodulation Attenuation	55 dB	50 dB
Maximum Deviation (RSD) 25 kHz / 12.5 kHz	$\pm$ 5 kHz, $\pm$ 2.5 kHz / $\pm$ 2.5 kHz	
Audio Sensitivity	60% RSD @ 80 mV RMS	
Spurious and Harmonic Emissions Attenuation 800 MHz / 900 MHz	90 dB / 86 dB	80 dB / 80 dB
FM Hum and Noise (750 μ s de-emphasis): 800MHz: 25 kHz, 12.5 kHz / 900 MHz: 12.5 kHz	50 dB nominal, 45 dB nominal / 45 dB nominal	
Frequency Stability (for temperature and aging variation)	0.1PPM/ External Ref (optional)	
Audio Response	+1,-3 dB from 6 dB per octave pre-emphasis; 300-3000 Hz referenced to 1000 Hz at line output	
Audio Distortion	Less than 3% (1% typical) at 1000 Hz; 60% RSD	
Emission Designators	FM Modulation: 800 MHz: 12.5 kHz: 11K0F3E; 25 kHz: 16K0F3E 900 MHz: 12.5 kHz: 11K0F3E 4FSK Modulation: 12.5 kHz - Data Only: 7K60FXD; 12.5 kHz - Data & Voice: 7K60FXE	

FCC TYPE ACCEPTANCE

Frequency Range in MHz	Model	Type	Power Output in Watts	US Type Acceptance Number
851 - 870 & 935- 941	T3000A	Transmitter	8-100	ABZ89FC5817
806 - 825 & 896 - 902	T3000A	Receiver	N/A	ABZ89FR5818
851 - 870	T2003A	Transmitter	20-75	ABZ89FC5819
806 - 825	T2003A	Receiver	N/A	ABZ89FR5820
935 - 941	T2003A	Transmitter	20-75	ABZ89FC5821
896 - 902	T2003A	Receiver	N/A	ABZ89FR5822

For more information on how to make your business more efficient
and better connected, [visit **www.motorola.com/mototrbo**](http://www.motorola.com/mototrbo)

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