THE SIGNAL FOR SUCCESS™

SDR-24/30/33
MODULAR DIGITAL REPEATER

The next generation of RF repeaters has arrived. The modular design of the SDR allows for a higher degree of flexible filtering and makes it the ideal solution for today's in-building coverage needs where voice and data coverage are limited. Digital filtering helps reject adjacent carrier signals.

The user-friendly GUI makes configuring the unit quick and accurate. The SDR supports both local connection via DHCP or remote connection via external wireless modem, allowing for a constant means of monitoring your extended network.

Variable gain and power provide unparalleled performance in any indoor environment. AGC, oscillation detection, and overload shutdown features help maintain your network's highest level of performance.

HIGHLIGHTS

- Future-proof modular design for maximum flexibility
- Modular structure supports quad-band service in one body
- Supports mixing and matching of various output power levels
- Support for multiple modules using same technology or frequency band
- Hot-swappable modules to minimize downtime
- 80/90/95 dB of max gain and up to 24, 30, or 33 dBm max output power
- Channelized digital filtering with sharp roll-off
- Intuitive and easy to use web-based GUI
- Support for external wireless modem for remote control and alarming
- Optional channel combiner module provides maximum flexibility for donor/server configurations

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SPECIFICATION

ELECTRICAL SPECIFICATIONS		SMR800/900	700MHz	Cell	PCS	AWS	BRS (FDD-LTE)	BRS (TDD-LTE)
MODEL		SDR-24/30/33-S	SDR-24/30/33-700F	SDR-24/30/33-C	SDR-24/30/33-P	SDR-24/30/33-AF	SDR-24/30/33-B	SDR-33-BT
FREQUENCY	DOWNLINK	851–869 MHz 935–940 MHz	728–757 MHz	869–894 MHz	1930–1995 MHz	2110–2180 MHz	2620–2690 MHz	2496–2562 MHz 2502–2568 MHz 2618–2684 MHz 2624–2690 MHz
	UPLINK	806–824 MHz 896–901 MHz	698–716 MHz 776–787 MHz	824–849 MHz	1850–1915 MHz	1710–1780 MHz	2500–2570 MHz	
FILTERING		1 ~ 2 selectable bands in blocks 0.25 ~ 18.00/5.00 MHz	1 ~ 2 selectable bands in blocks of 0.25 ~ 18.00 MHz	1 ~ 2 selectable bands in blocks of 0.25 ~ 25.00 MHz	1 ~ 3 selectable bands in blocks of 1.25 ~ 18.75 MHz	1 ~ 3 selectable bands in blocks of 1.25 ~ 18.75 MHz	1 selectable band of 1.25 ~ 20.00 MHz	1 ~ 4 selectable bands in blocks of 1.08 ~ 30.00 MHz
GAIN		80 dB	90 / 90 / 95 dB					95 dB
OUTPUT POWER		24 / 30 / 33 dBm						33 dBm
GAIN CONTROL RANGE		30 dB @ 0.5 dB step	40 dB @ 0.5 dB step					
NOISE FIGURE		< 6 dB @ Max Gain		< 5 dB @ Max Gain				
DELAY		≤ 8 µs	≤ 6 µs	≤ 6.5 µs	≤ 5 µs			
VSWR		< 1.5 : 1						
FILTER ROLL-OFF		65 dBc @ 500 KHz from sub-band edge	50 dBc @ 1 MHz from sub-band edge					
POWER CONSUMPTION		< 123 / 164 / 184 W			< 137 / 167 / 191 W		< 150 / 180 / 200 W	

GENERAL SPECIFICATIONS		
DIMENSION (W x H x D)	CHASSIS	19.0 x 14.0 x 19.1 in
	MODULE	4.2 x 11.6 x 18.2 in
	NMS	17 x 2.3 x 16.7 in
WEIGHT	CHASSIS	26 lbs
	MODULE	21 lbs
	NMS	7 lbs
TEMPERATURE		14° – 122° F
HUMIDITY		5 – 90%, non condensing
AC POWER		110 – 130V AC, 60 Hz (Default) or 210 – 240V AC, 60 Hz (Selectable Switch)
NETWORK MANAGEMENT	LOCAL	RJ45 (Ethernet)
	REMOTE	Web-GUI, SNMP, SNMP-Traps (External Wireless Modem Required)
RF CONNECTOR		N-Type Female
WEATHER RESISTANCE		IP20 / NEMA1

ADRF
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