

AXM700F-9543-ICS-X

FirstNet + Commercial 700 MHz
20W Outdoor Digital Repeater

ADRF's AXM700F-9543-ICS-X is a revolutionary outdoor digital repeater that enables simultaneous support of FirstNet and Commercial 700 MHz frequency bands through advanced technologies such as patented Interference Cancellation System™ and DSP based Band Equalization™, all housed in a ruggedized enclosure to withstand the harshest of elements.

AXM700F-9543-ICS-X provides a cost effective complement to FirstNet base stations to leverage the existing infrastructure to efficiently meet coverage needs. The repeater's adjustable gain and output power make it ideal for enhancing the coverage of any indoor or outdoor application. Higher gain and power ensure wireless coverage for even the most remote locations. Remote access provides the ability to receive alarm notifications or make minor adjustments instantaneously.



Product Features

- ▶ Simultaneously supports both FirstNet and Commercial 700 MHz
- ▶ Features our patented Interference Cancellation System
- ▶ Supports optional internal modem box for remote access and alarming
- ▶ NEMA 4X compliant housing
- ▶ 95 dB of max gain and 43 dBm max output power
- ▶ Digital filtering with sharp roll-off and non-contiguous sub-band filtering with band equalization
- ▶ Remote monitoring and control capability using our famed Web-based GUI

Product Specifications

AXM700F-9543-ICS-X (FirstNet + Commercial
700 MHz 20W Outdoor Digital Repeater)



Electronic Specifications

Frequency Range	Downlink	728 - 768 MHz
	Uplink	698 - 716, 776 - 798 MHz
Filtering (w/ ICS)	LTE Mode	5 / 10 MHz
Filtering (w/ out ICS)		1 ~ 2 selectable bands in blocks of 0.25 ~12.00/18.00 MHz
Filter Roll Off		> 50 dBc @ 1 MHz Outside Passband
Delay		≤ 7 μs
Output Power	Downlink	43 dBm
	Uplink	30 dBm
Variable Gain Range		40 dB @ 0.5 dB step
Gain		95 dB (max)
Noise Figure (Uplink)		≤ 5 dB @ Max Gain
VSWR		≤ 1.5 : 1
Available Isolation (w/ ICS)		System Gain - 15 dB
Cancellation Window (w/ ICS)		≤ 6 μs
EVM		< 4% (w/ out ICS), < 8% (w/ ICS); 3GPP 36.106 / 36.141

Mechanical Specifications

Dimension (W X H X D)		17.0 x 22.1 x 10.6 in
Weight (w/ out Bracket)		87.5 lbs
Temperature		-22° - 131° F
Relative Humidity		5 - 95 % (Non-Condensing)
AC Power		100 ~ 130V AC, 200 ~ 240V AC (Switch Selectable)
Power Consumption		206 W (max)
Wireless Modem		Optional Internal Modem
Network Management	Local	RJ45 (Ethernet)
	Remote	SNMP
RF Connector		7/16 DIN (Female)
Weather Resistance		NEMA 4X

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