Remote Spectrum Monitor MS27102A
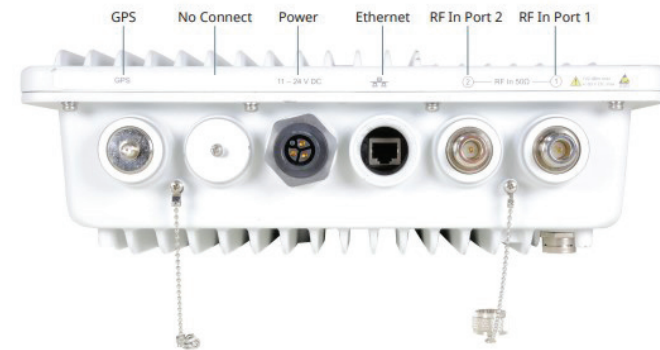## For Remote RF Signal Monitoring
9 kHz to 6 GHz

Anritsu
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Fast. Reliable. Accurate.

The Anritsu MS27102A is a remote spectrum monitor designed for remote outdoor applications. This monitor is rated to the IP67 standard, being dust tight (no ingress of dust) and water resistant. Each port on the unit is ruggedized and weatherized. Ports include power, RF Input(s), Gbit Ethernet, and GPS antenna. The MS27102A works in the most extreme weather conditions with guaranteed performance anywhere and anytime. With monitors potentially being deployed hundreds or thousands of kilometers from the control center, it is essential that each one remains operational under all types of conditions. The MS27102A is designed for robust field deployments with capabilities for remote power cycling, automated system recovery protocols, and firmware updates "pushed" to the monitor remotely.

Key Features

• 9 kHz to 6 GHz

• Sweep speed up to 24 GHz/s

• IP67 rated for outdoor deployments

• Integrated web server (Google Chrome and Mozilla Firefox supported)

• Remote firmware update capable

• Watchdog time to insure long-term stability

• Linux operating system

• 20 MHz FFT bandwidth

• Low power consumption < 11 Watts

• Dynamic range > 106 dB normalized to 1 Hz RBW

• Gigabit Ethernet

• IQ block mode and streaming with time stamping

• 4 GB internal memory available for storing files

• Integrated GPS receiver

• Automated remote monitoring and recording with optional MX280001A Vision PC software

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Key Specifications

Specification	
Frequency Range	9 kHz to 6 GHz (Tunable to 0 Hz)
Tuning Resolution	1 Hz
Maximum Sweep Speed	24 GHz/s
Resolution Bandwidth (RBW)	10 Hz to 3 MHz in 1–3 Sequence (–3 dB Bandwidth)
Video Bandwidth (VBW)	10 Hz to 3 MHz in 1–3 Sequence (–3 dB Bandwidth) (auto or manually selectable)
SSB Phase Noise @ 1 GHz	-98 dBc/Hz @ 10 kHz Offset
Dynamic Range	> 106 dB at 2.4 GHz, 2/3 (TOI-DANL) in 1 Hz RBW
Measurement Range	DANL to Maximum Continuous Input
Reference Level Range	-150 dBm to +30 dBm
Attenuator Range	0 dB to 50 dB in 5 dB Steps
Amplitude Units	Log Scale Modes: dBm, dBμV
Amplitude Accuracy	±2.5 dB
Operating Temperature Range	-40 ºC to 50 ºC
Size	310 mm x 102 mm x 310 mm (12.2 in x 4.0 in x 12.2 in)
Weight	6.87 kg (15.2 lb)

Standard Accessories

Part Number	Description
40-187-R	AC-DC Adapter
2100-32-R	Power Adapter Cable
2000-1371-R	Ethernet Cable, 2.13 m (7 ft)
2000-1528-R	GPS Antenna, SMA(m) with 4.6 m (15 ft) cable, 3 dBi gain, requires 5 VDC

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Optional Accessories

Part Number	Description
760-285-R	Large Transit Case with Wheels and Handle

Hardware Options

Part Number	Description
MS27102A-0402	2-Port RF Input
MS27102A-0404	4-Port RF Input
MS27102A-0406	6-Port RF Input

Vision Software Options

Part Number	Description
MS27102A-0400	Vision Monitor Enabled
MS27102A-0401	Vision Locate Enabled (Requires Option 400 Above)
MS27102A-0407	High-Speed Port Scanner Enabled
MS27102A-0486	Vision Coverage Mapping (requires Option 407)