Remote Spectrum Monitor MS27101A
For Remote RF Signal Monitoring
9 kHz to 6 GHz

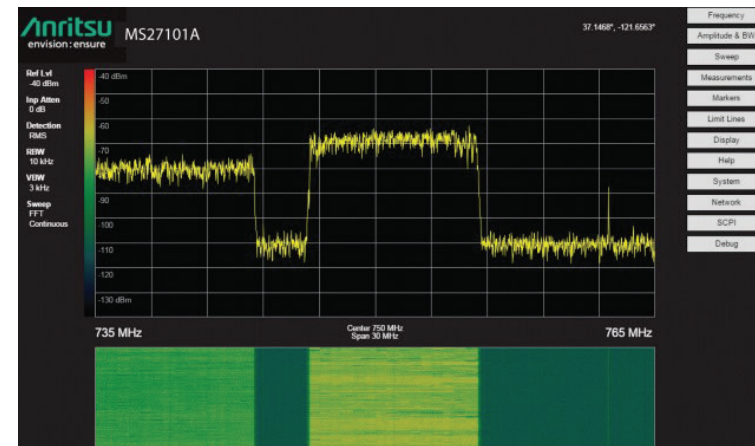**Anritsu**
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Fast. Reliable. Accurate.

The Anritsu Remote Spectrum Monitor MS27101A is a small form-factor spectrum monitor designed for remote applications. This monitor is used for indoor applications and comes with an optionally available bracket kit for rackmounting.

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 Remote Spectrum Monitor MS27101A is designed for robust field deployments with capabilities for remote power cycling, automated system recovery protocols, and firmware updates "pushed" to the monitor remotely.

Using three or more probes, Anritsu's optional Vision™ software can be used to position an interferer signal or illegal broadcast. Additionally, IQ measurements are time-stamped using the probe's GPS receiver. This enables the user to employ their own software using Time Difference of Arrival (TDOA) capabilities to find interferers, given each monitor IQ measurement is precisely time stamped.

Key Features

• 9 kHz to 6 GHz

• Sweep speed up to 24 GHz/s

• 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

• Integrated GPS receiver

Spectrum and Spectrogram Presented by Webserver Interface

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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 ℃ to 50 ℃
Size	216 mm x 45 mm x 368 mm (8.5 in x 1.75 in x 14.5 in)
Weight	2.78 kg (6.2 lb)

Standard Accessories

Part Number	Description
40-187-R	AC-DC Adapter

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Optional Accessories

Part Number	Description
760-288-R	Transit Case
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

Hardware Options

Part Number	Description
MS27101A-0001	Rack Mount Kit

Vision Software Options

Part Number	Description
MS27101A-0400	Vision Monitor Enabled
MS27101A-0401	Vision Locate Enabled (Requires Option 400 Above)
MS27101A-0407	High-Speed Port Scanner Enabled
MS27101A-0486	Coverage Mapping (requires Option 407 and 486)