Component Specifications

AXT600 Spectrum Manager

Overview

The Axient Spectrum Manager is a powerful tool for calculating, analyzing and assigning compatible frequencies to wireless components. The Spectrum Manager scans the RF environment and uses this data to calculate compatible frequencies for all wireless channels found on the network. Networked wireless systems can be programmed from the Compatible Frequency List, while backup frequencies are continuously monitored and ranked according to quality. During operation, the Spectrum Manager deploys clear frequencies to receivers when interference occurs. Built-in spectrum monitoring tools provide visual and audio tracking of RF activity.

- The Spectrum Manager captures scan data for the entire UHF frequency range available for wireless audio
- The on-board frequency calculator can be adjusted to avoid specific TV channels, frequency ranges or RF signal above a specified threshold
- Event Log records actions of the Spectrum Manager during operation and provides a snapshot of system performance.
- Backup Frequency Monitoring
- The data screen tracks the real-time status of in-use and backup frequencies
- Scanner feature graphically plots the measured RF signal across the full frequency range
- Use the Listen feature to tune to a frequency and monitor FM demodulated signal using headphones
- Networking enables many of the advanced features of the Axient system, including monitoring and control of remote devices
- RF Cascade Ports allow sharing of RF signal with up to 5 components without antenna splitters or distribution amplifiers

Product Specifications (subject to change)

RF Tuning Frequency Range	470–865, 925–952 MHz
RF Tuning Step Size	25, 200, 1000 kHz
Scan Time	The Spectrum Manager scans the entire RF tuning frequency range in 64 seconds using 8 scanning modules in parallel. Scan time per 60 MHz may be less for specified ranges that allow scanning modules to work in parallel. **Step Size** / **Maximum Scan Time per 60 MHz** 25 kHz: 48 seconds *200 kHz: 7 seconds *1000 kHz: 1 second *Available only with WWB6 control
Noise Floor	Resolution Bandwidth 25 kHz: -110 dBm 200 kHz: -100 dBm 1000 kHz: -90 dBm
Image Rejection	>110 dB, typical
Spurious Response	<-100 dBm, typical
Ultimate Quieting	>90 dB, A-Weighted
Dimensions	44 mm x 483 mm x 366 mm (1.7 in. x 19.0 in. x 14.4 in.), H x W x D
Weight	5.5 kg (12.0 lbs)
Housing	Steel; Extruded aluminum
Power Requirements	100 to 240 V AC, 50-60 Hz
Current Drain	0.8 A RMS (referenced at 120 V AC)
Operating Temperature Range	-18°C (0°F) to 63°C (145°F)
RF Input	
Connector Type	BNC
Configuration	Unbalanced, active
Maximum Input Level	-20 dBm
Impedance	50 Ω
Bias Voltage	12 V DC, 150 mA (300 mA maximum)
Cascade Output	
Connector Type	BNC
Configuration	Unbalanced, active
Impedance	50 Ω
Insertion Loss	<5 dB
Monitor Audio Output	
Audio Frequency Response	40 – 18 kHz, ±3 dB
Configuration	Unbalanced mono, 1/4 in. (will drive stereo phones)
Impedance	50 Ω
Maximum Signal Level (45 kHz max. deviation)	1 W @ 63 Ω
Pin Assignments	Tip: audio + Ring: audio + Sleeve: ground
Networking	
Power Over Ethernet (PoE)	50 V DC, Class 1
Network Interface	Dual Port Ethernet 10/100
Network Addressing Capability	DHCP or Manual IP address

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Included Components

95N2035	1-foot Coaxial Cascade Cable (2)
95A9128	IEC AC Power Cable (1)
95A9129	IEC AC Extension Cable (1)
C803	Shielded 3-foot Ethernet Cable (1)
C8006	Shielded 8-inch Ethernet Jumper Cable (1)
90XN1371	Hardware Kit (1)
95B9023	22-inch Coaxial Cable* (1)
95C9023	33-inch Coaxial Cable* (1)

* with integrated bulkhead for front mounting antennas.
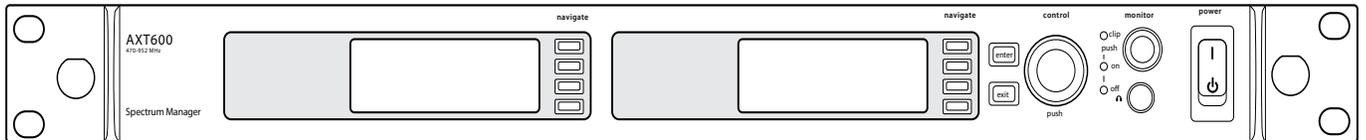
AXT600 Spectrum Manager Front
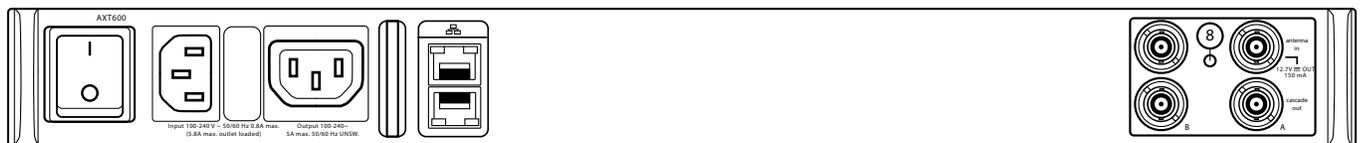
AXT600 Spectrum Manager Back

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