

Component Specifications

AXT400 Dual Channel Receiver

Overview

The AXT400 Dual Channel Receiver combines advanced analog and digital technology to deliver exceptional RF and audio performance. The receiver features ShowLink™ Remote Control for real-time transmitter adjustments, Frequency Diversity mode for seamless dual-frequency operation, and Interference Detection & Avoidance. It offers up to 228 MHz of wideband tuning and supports AXT and UHF-R series transmitters. Connectivity options include transformer balanced audio outputs, AES3 digital audio output, RF Cascade ports and dual Ethernet ports for networked control and monitoring via Shure Wireless Workbench 6 software.

- Comprehensive real-time remote control of a linked transmitter when used with the AXT610 ShowLink Access Point.
- Detects the presence of an interfering analog or digital signal and avoids it by switching to a 'backup' frequency deployed by the AXT600 Axient Spectrum Manager, either manually or automatically.
- Frequency diversity provides seamless audio in environments where there is a risk of dropouts or interference by using transmission from a single audio source on two independent radio frequencies.
- Up to 228 MHz tuning bandwidth accommodates multiple transmitter bands, providing flexibility and simplifying receiver inventories.
- The AXT400 Receiver shares information with other system components via Ethernet networking, enabling advanced features such as remote control of transmitters and management using WWB® 6 software.
- RF Cascade Ports share RF signal with up to 5 receivers within the same frequency band.
- **Compatible Transmitters :**
 - **AXT100** Bodypack Transmitter,
 - **AXT200** Frequency Diversity Handheld Transmitter
 - **UR1** Bodypack Transmitter
 - **UR1H** Bodypack Transmitter
 - **UR1M** Micro-Bodypack transmitter
 - **UR2** Handheld Transmitter

Product Specifications (subject to change)

RF Carrier Frequency Range	470-952 MHz Note: varies by region
Working Range	Under typical conditions: 150 m (500 ft) Line of Sight, outdoors for a single system: 500 m (1600 ft) Note: Actual range depends on RF signal absorption, reflection and interference.
Audio Frequency Response	40 – 18 kHz (+1, -3 dB) Note: Dependent on microphone type
RF Tuning Step Size	25 kHz
Modulation <i>45 kHz max. deviation</i>	FM, Audio Reference Companding with pre- and de-emphasis
Signal-to-Noise Ratio (SNR)	XLR Output: >118 dB (A-weighted) @1% THD AES3 Output: >130 dB (A-weighted) @1% THD
Image Rejection	>120 dB, typical
RF Sensitivity	-110 dBm for 12 dB SINAD, typical
Spurious Rejection	>110 dB, typical
Ultimate Quieting	>110 dB, A-Weighted
Squelch Quieting	>115 dB, A-Weighted
Latency	<1 ms
Total Harmonic Distortion <i>45 kHz max. deviation</i>	<0.3%, A-weighted, typical
System Audio Polarity	Positive pressure on microphone diaphragm (or positive voltage applied to tip of WA302 phone plug) produces positive voltage on pin 2 (with respect to pin 3 of low-impedance output) and the tip of the high impedance 1/4-inch output.
Gain Adjustment Range	0 to -30 dB (in 1 dB steps), plus Mute setting
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	1.1 A RMS (referenced at 120 V AC)
Operating Temperature Range	-18°C (0°F) to 63°C (145°F)
Storage Temperature Range	29°C (-20°F) to 74°C (165°F)
RF Input	
Connector Type	BNC
Configuration	Unbalanced, active
Impedance	50 Ω
Bias Voltage	12 V DC, 150 mA (300 mA maximum)
Cascade Output	
Connector Type	BNC
Configuration	Unbalanced, active
Impedance	50 Ω

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Digital Audio Output

Configuration	AES3 Type 1, XLR connector:	Channel 1: Left Channel 2: Right
Word Clock Input	Level: Frequency:	3 Vpp 48/96 kHz
Impedance	75 Ω	
Pin Assignments	1: ground 2: audio + 3: audio -	
Phantom Power Protection	Yes	

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	

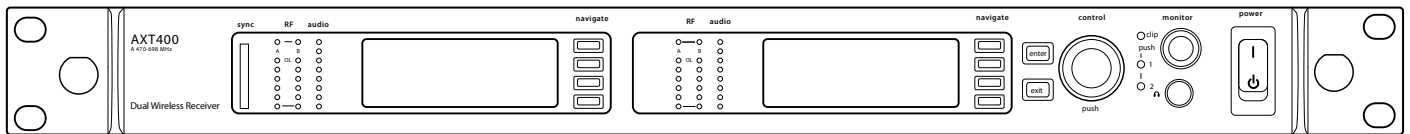
Analog Audio Output

Configuration	Monitor: Unbalanced mono, 1/4 in. (will drive stereo phones) 6.35 mm (1/4"): Transformer Coupled Balanced XLR: Transformer Coupled Balanced	
Impedance	Monitor: 50 Ω 6.35 mm (1/4"): <50 Ω XLR: <150 Ω	
Maximum Signal Level 45 kHz max. deviation	Monitor: 1 W@ 63 Ω 6.35 mm (1/4"): 9 dBu XLR: +18 dBu	
Mic/Line Switch	30 dB	
Pin Assignments	Monitor:	Tip: audio + Ring: audio + Sleeve: ground
	6.35 mm (1/4"):	Tip: audio + Ring: audio - Sleeve: ground
	XLR:	1: ground 2: audio + 3: audio -
Phantom Power Protection	Monitor: No 6.35 mm (1/4"): Yes XLR: Yes	

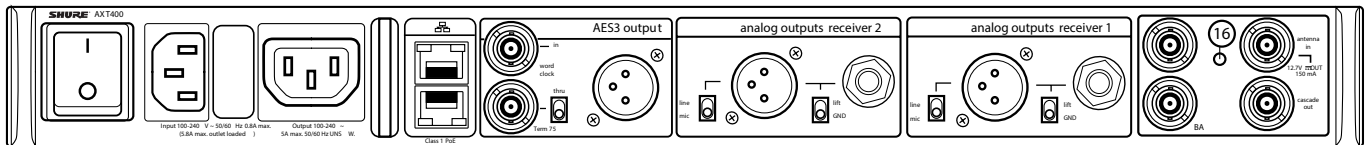
Included Components

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.



AXT400 Dual Channel Receiver Front



AXT400 Dual Channel Receiver Back



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