

Component Specifications

AD4Q-DC Four-Channel Wireless Receiver

Overview

The AD4Q Axient Digital Quad Receiver sets a new standard in transparent digital audio and maximum spectral efficiency. Groundbreaking performance features include wide tuning, low latency, High Density (HD) mode, and Quadversity™, ensuring solid performance in the most challenging RF environments. Networked control, AES3 + Dante output, and signal routing options bring a new level of management and flexibility to your entire workflow. Compatible with all Axient Digital transmitters.

Features

- Wide tuning range up to 184MHz
- True digital diversity reception per channel for drop-out resistance
- Networked control with Wireless Workbench® and ShurePlus™ Channels app
- Quadversity™ mode for extended antenna coverage and improved RF signal-to-noise
- Front panel headphone jack enables Dante Cue and Dante Browse monitoring
- Configurable Ethernet switch for redundant Dante digital output
- Switchable XLR/AES3 outputs
- Channel Quality meter displays RF signal-to-noise
- Locking AC connectors
- DC module supports redundant power

Specifications

Dimensions	44 mm x 483 mm x 333 mm (1.7 in. x 19.0 in. x 13.1 in.), H x W x D
Weight	4.8 kg (10.6 lbs), without antennas
Housing	Steel; Extruded aluminum
Power Requirements	100 to 240 V AC, 50–60 Hz; 0.68 A max.
Thermal Dissipation	Maximum: 31 W (106 BTU/hr) Idle: 21 W (72 BTU/hr)
DC Input Voltage Range	10.9–14.8 V DC
Maximum DC Input Current	AD4Q: A
Protection Modes	Overvoltage, Undervoltage, Reverse Polarity
4-Pin XLR	Pin 1: Negative; Pin 2: No Connection; Pin 3: No Connection; Pin 4: Positive

Audio Output

Gain Adjustment Range	–18 to +42 dB in 1 dB steps (plus Mute setting)
Configuration	1/4" (6.35 mm): Transformer-coupled Balanced (Tip=audio, Ring=no audio, Sleeve=ground) XLR: Transformer-coupled Balanced (1=ground, 2=audio +, 3=audio -)
Impedance <i>Typical, XLR Line out</i>	100Ω
Full Scale Output <i>200 kΩ load</i>	1/4" (6.35 mm): +8 dBV XLR: LINE setting= +18 dBV, MIC setting= –12 dBV
Mic/Line Switch	30 dB pad
Phantom Power Protection	Yes

Networking

Network Interface	10/100 Mbps, 1 Gbps, Dante Digital Audio
Network Addressing Capability	DHCP or Manual IP address
Maximum Ethernet Cable Length	100 m (328 ft)

Cascade output

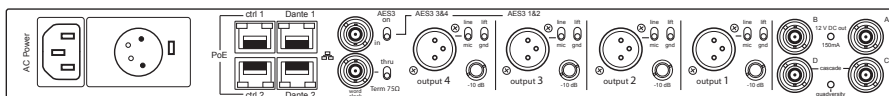
Connector Type	BNC <i>Note: For connection of one additional receiver in the same band</i>
Configuration	Unbalanced, passive
Impedance	50 Ω
Insertion Loss	0 dB, typical

RF Input

Spurious Rejection	>80 dB, typical
Connector Type	BNC
Impedance	50 Ω
Bias Voltage	12–13.5 V DC, 150 mA maximum, per antenna, switchable on/off
RF Carrier Frequency Range <i>Model-dependent</i>	AD4Q=A: 470–636 MHz AD4Q=B: 606–810 MHz AD4Q=C: 750–960 MHz



AD4Q-DC Four-Channel Receiver Front Panel



AD4Q-DC Four-Channel Receiver Rear Panel



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