



ANX4 SCALABLE WIRELESS RECEIVER

FOR AXIENT® DIGITAL AND ULX-D® SYSTEMS

OVERVIEW

The ultimate flexible high-tier, high channel count wireless receiver, ANX4 provides up to 16 channels of Shure Axient Digital or 24 channels of Shure ULX-D wireless, enabled by digital licenses available for purchase in single- and four-channel increments (sold separately). All exceptional features found in award-winning Axient Digital and ULX-D receivers that have made them industry standards are available in the ANX4. Whether you activate ANX4 in Axient Digital or ULX-D transmission mode, ANX4 maximizes your budget and rack space in delivering large channel counts in a 1RU format while also streamlining your antenna configuration. Shure ANX4 is scalable high-tier wireless that adapts to your needs.

FEATURES

- **Scalable Wireless Receiver** for use with Axient Digital and ULX-D wireless systems
- **Receives up to 16 channels** of Axient Digital or 24 channels of ULX-D in a single rack space
- **Single- and four-channel digital licenses** sold separately
- **Wide tuning range** covers 174 MHz to 2 GHz, covering all Axient Digital and ULX-D options (except for the ULX-D 902 MHz band)
- **All Axient Digital or ULX-D features included****
- **Large, 6.6-inch front panel color display**
- **Five-segment Channel Quality** meter displays RF signal-to-noise
- **1 x ¼-inch front-panel headphone connector** for monitoring with Dante Browse (for both Axient Digital and ULX-D)
- **Streamlined and cost-saving antenna setup** for large-scale wireless deployment
- **4 x Ethernet ports** for network control and Dante/AES67 digital output options
- **4 x coaxial RF antenna input connectors** support multiple frequency bands and provides greater coverage for complex setups
- **Networked control with Shure Wireless Workbench®** for extended and enhanced RF monitoring and management
- **DC module version** available to support redundant power

**ANX4 does not ship preconfigured with active wireless channels. Digital licenses, sold separately, required for operation.*

***System features are dependent upon activated transmission mode: Axient Digital or ULX-D (ANX4 does not support both systems, or both system features, at one time).*

SPECIFICATIONS

Dimensions	1.7" x 19.0" x 11.3" (44 mm x 482 mm x 286 mm)
Weight	8.6 lb (3.9 kg)
Housing	Steel; extruded aluminum (Case Top: Aluminum)
Thermal Power Dissipation	Maximum: 61.3 W (209.3 BTU/hr) Idle: 49.2 W (167.9 BTU/hr)
Power Requirements	AC: 100 to 240 V AC, 50-60 Hz, 1.4 A max DC: 11.3 to 16 V DC, 10 A max
Fuse	T5A
Operating Temperature Range	-18°C (0°F) to 50°C (122°F)
Storage Temperature Range	-29°C (-20°F) to 74°C (165°F)

RF INPUT

Spurious Rejection	>80 dB, typical
Connector Type	BNC
Impedance	50 Ω
Configuration	Unbalanced, passive
Bias Voltage	12 to 13.5 V DC, 150 mA maximum, per antenna. Switchable on-off.
Insertion Loss	0 dB, typical

RF

RF Carrier Frequency Range	174 – 2000 MHz
Working Range	100 m (330 ft) (Note: Actual range depends on RF signal absorption, reflection, and interference.)
Gain Adjustment Range	-18 to +42 dB in 1 dB steps (plus Mute setting)
RF Tuning Step Size	25 kHz, varies by region
Image Rejection	> 90 dB, typical
RF Sensitivity	ULX-D: -95 dBm at 10-5 BER Axient Digital: -93.5 dBm at 10-5 BER

AUDIO

Latency	ULX-D Standard: < 2.9 ms ULX-D High Density: < 3.2 ms Axient Digital Standard: < 2.1 ms Axient Digital High Density: < 3.0 ms
Audio Frequency Response	20 – 20 kHz (±1 dB)
Audio Dynamic Range Typical, 20 Hz to 20 kHz, System Gain @ +12 dB	124 dB A-weighted
Total Harmonic Distortion -6 dBFS, 1 kHz, System Gain @ +12 dB	< 0.1%
System Audio Polarity	Positive pressure on microphone diaphragm produces positive voltage on pin 2 (with respect to pin 3 of XLR output) and the tip of the 6.35 mm (1/4-inch) output.



ANX4
WIRELESS RECEIVER



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SPECIFICATIONS (CONTINUED)

HEADPHONE MONITOR OUTPUT

Audio Frequency Response	20 – 20 kHz (±3 dB)
Configuration	¼-inch / 6.3 mm connector, unbalanced stereo
Impedance	63 Ω
Maximum Signal Level	350 mW
Pin Assignments	Tip: Audio +, Left Ring: Audio + Right Sleeve: Ground

DC MODULE

DC Input Voltage Range	11.3 to 16 V DC, 10 A max
Protection Modes	Reverse Polarity, Over Voltage
Connector Type	4-pin XLR (male) (Note: Shell of the DC inlet connector is connected to Chassis Ground)
Recommended Cable Gauge	6 feet (or less): 18 AWG (1mm)
	7-15 feet: 16 AWG (1.5 mm)
	16-25 feet: 14 AWG (2.5 mm)
	(Note: Total cable length should not exceed 25 feet)

NETWORKING

Network Interface	10/100 Mbps, 1 Gbps, Dante Digital Audio
Network Addressing Capability	DHCP or Manual IP address
Maximum Cable Length	100 m (330 ft)

AVAILABLE FREQUENCY BANDS

ULX-D

BAND	FREQUENCY RANGE (MHz)
AB	A: 770 to 806
	B: 806 to 809
G50	470 to 534
G51	470 to 534
G52	479 to 534
G53	470 to 510
G54*	479 to 565
G55*	470 to 608, 614 to 636
G56*	470 to 636
G57*	470 to 608
G62	510 to 530
G65*	470 to 606
G66*	487 to 606
H50	534 to 598
H51	534 to 598
H52	534 to 565
H54*	520 to 636
J50	572 to 608, 614 to 636
J50A	572 to 608, 614 to 616
J51	572 to 636
JA	770 to 806
JB	806 to 810
K51	606 to 670
L50	632 to 696
L50A	653 to 663
L51	632 to 696
L53	632 to 714
M19	695 to 703
P51	710 to 782
Q12	748 to 758
Q51	794 to 806
R51	800 to 810
V50	174 to 216
V51	174 to 216
V52	174 to 210
X51	925 to 937.5
Z16	1240 to 1260
Z17	1492 to 1525
Z18	1785 to 1805
Z19	1785 to 1800
Z20	1790 to 1805

AXIENT DIGITAL

BAND	FREQUENCY RANGE (MHz)
G53	470 to 510
G54	479 to 565
G55†	470 to 636*
G56	470 to 636
G57	470 to 609
G57+*	470 to 609, 614 to 616
G62	510 to 530
G63	487 to 636
H54	520 to 636
JB	806 to 810
K53	606 to 608, 614 to 698
K54	606 to 608, 614 to 616, 653 to 663
K55	606 to 694
K56	606 to 714
K57	606 to 790
K58	622 to 698
L54	630 to 787
L60	630 to 698
P55	694 to 703, 748 to 758, 803 to 806
R52	794 to 806
X51	925 to 937.5
X55	941 to 960
X56	960 to 1000
Z16††	1240 to 1260

* Maximum transmitter power is limited to 10mW between 614 to 616 MHz.

†Operation mode varies according to region. In Brazil, High Density mode is used. The maximum power level for Peru is 10mW.

††Z16 for Japan only

*ULX-D Wide Tuning frequencies

Note: Frequency bands might not be available for sale or authorized for use in all countries or regions.

The band Z17 (1492-1525 MHz) must be used indoors only.

For the Band Z19 (1785-1800MHz) used in Australia, per Radio Communications Low Interference Potential Devices Class License 2015, item 30 note C: the system must be operated within the range of 1790-1800MHz when used outdoors.

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All information and specifications are subject to change.

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