

LEGENDARY PERFORMANCE™



AXIENT® DIGITALWIRELESS SYSTEMS

Incorporating the most innovative wireless audio technology in the world, Axient Digital was engineered from the ground up for professional productions that demand flawless execution.

With an unprecedented level of signal stability and audio clarity, plus flexible hardware options, advanced connectivity, and comprehensive control, it's a wireless system built to take on the challenges of today—and tomorrow.

RF PROTECTION

With outstanding signal quality in even the most complex, congested environments, Axient Digital ensures maximum stability, range, and clarity for uncompromising audio—anywhere, every time.

AUDIO QUALITY

Axient Digital defies limitations for both RF and audio quality. With industry-leading low latency, transparent frequency response, and wide dynamic range, nothing gets in the way of true, pure sound. No matter the setting, it's Shure audio quality you can count on.

COMMAND & CONTROL

ShowLink® remote control, Wireless Workbench®, the ShurePlus™ Channels app, and networked battery monitoring provide unmatched control and insight, for seamless performance.

HARDWARE & SCALABILTY

With two transmitter series to choose from—both compatible with a shared receiver platform—Axient Digital is a scalable wireless system that provides incomparable sound for a wide range of applications and settings.

System Specifications

RF Carrier Range	470–960 MHz Note: Varies by region (See Frequency Range and Ouput Power table)
Working Range	100 m (330 ft) Note: Actual range depends on RF signal absorption, reflection and interference.
RF Tuning Step Size	25 kHz, varies by region
Image Rejection	>70 dB, typical
RF Sensitivity	–98 dBm at 10 ⁵ BER
Latency	Standard mode: 2.0 ms High Density mode: 2.9 ms
Audio Frequency Response	AD1: 20 Hz – 20 kHz (±1 dB) AD2: 20 Hz – 20 kHz (±1 dB) Note: Dependent on microphone type
Audio Dynamic Range A-weighted, typical, System Gain @ +10	XLR Analog Output: 120 dB (A-weighted); 117 (unweighted) Dante Digital Output: 130 dB (A-weighted); 126 (unweighted)
Total Harmonic Distortion −6 dBFS input, 1 kHz, System Gain @ +10	<0.01%
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.
Operating Temperature Range	-18 °C (0 °F) to 50 °C (122 °F) Note: Battery characteristics may limit this range.
Storage Temperature Range	-29 °C (-20 °F) to 65 °C (149 °F) Note: Battery characteristics may limit this range.

Furnished Accessories

Receivers	
90XN1371	Hardware Kit
95A8994	BNC Bulkhead Adapter
Var. by region	½ Wave Receiver Antenna (2)
95B9023	BNC-BNC Cable (short)
95C9023	BNC-BNC Cable (long)
95N2035	Coaxial RF Cascade Cable
Var. by region	AC Power Cable, VLock
Var. by region	AC Power Jumper Cable
95A33402	Ethernet Cable, 3 ft.
95B33402	Ethernet Jumper Cable
Handheld Systems	
95B2313	Zipper Bag
31B1856	Euro-threaded Adapter
90F4046	Swivel Adapter, black
80B8201	AA Alkaline Batteries (2)
Bodypack Systems	
80B8201	AA Alkaline Batteries (2)
Var. by region	1/4 Wave Antenna
WA340	Threaded TA4F Adapter
WA610	Transmitter Carrying Case
26A13	Zipper Bag
44A12547	Belt Clip

Optional Accessories

Battery Chargers	
SBRC	Rack-Mounted Networked Battery Charger
SBC900	SBRC Battery Charging Module for SB900A Batteries
SBM910	SBRC Battery Charging Module for SB910 Batteries
SBM910M	SBRC Battery Charging Module for SB910M Batteries
SBM920	SBRC Battery Charging Module for SB920 Batteries
SBC240	2-Bay Networked Docking Charger for ADX1, ADX2 & ADX2FD Transmitters, SB910 & SB920 Batteries
SBC840	8-Bay Networked Docking Charger for ADX1, ADX2 & ADX2FD Transmitters, SB910 & SB920 Batteries
SBC840M	8-Bay Networked Docking Charger for SB910M Batteries

Handheld Systems	
WA619-A	Radome Color ID Kit for ADX Handheld Transmitter
WA619-B	Battery Contact Cover for ADX Handheld Transmitter
AD651B	Talk Switch Button (black)
AD651B	Talk Switch Button (nickel)
WA371	Microphone stand adapter
SBC240	2-Bay Networked Docking Charger 2-Up

NOTE: This Radio equipment is intended for use in musical professional entertainment and similar applications. This Radio apparatus may be capable of operating on some frequencies not authorized in your region. Please contact your national authority to obtain information on authorized frequencies and RF power levels for wireless microphone products.

Rechargeable Power Management

(sold separately, see individual product pages for specifications and compatibility information)

SB900A Lithium-Ion Rechargeable Battery

AD series transmitters are compatible with the SB900A lithium-ion rechargeable battery, which provides up to 9 hours of continuous use and precise tracking of remaining life and charge cycle details.

SB910 & SB920 Rechargeable Batteries

ADX1, ADX2 and ADX2FD ShowLink®-Enabled transmitters exclusively use SB910 or SB920 lithium-ion rechargeable batteries

SB910M Lithium-Ion Rechargeable Batteries

ADX1M micro bodypack transmitters exclusively use SB910M lithium-ion rechargeable batteries.

SBRC Networked Shure Battery Rack Charger

This tour-ready modular battery charging station charges a variety of Shure Li-Ion batteries, with support for up to eight SB900A, AXT910 and AXT920, all in a single rack-unit space. Wireless Workbench networkability and ShurePlus Channels compatibilty provides convenient remote monitoring of charge status, and an easy-to-read front panel display that provides key battery charging and health metrics, including time-to-full, temperature and charge cycle count.

Battery Runtimes (Note: Frequency Band Dependent)

Battery Type	10 mW
SB900A	up to 9 hours
Alkaline	up to 8 hours
NiMH	up to 11 hours
Li-primary	up to 14 hours
SB910	up to 10 hours
SB910M	up to 7 hours
SB920	up to 9 hours up to 6.5 hours*

*ADX2FD in Frequency Diversity Mode



AD4Q Four-Channel Wireless Receiver

Overview

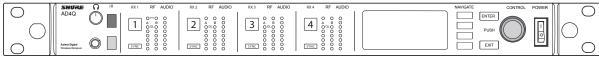
The AD4Q Axient Digital Quad Receiver sets a new standard in transparent digital audio and maximum spectral efficiency. Groundbreaking performance features include wide tuning, low latency, High Density (HD) mode, and Quadversity™, ensuring solid performance in the most challenging RF environments. Networked control, AES3 + AES67 + Dante™ and signal routing options bring a new level of management and flexibility to your entire workflow. Compatible with all Axient Digital transmitters.

Features

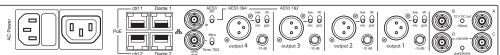
- Wide tuning range up to 184MHz
- True digital diversity reception per channel for drop-out resistance
- Networked control with Wireless Workbench® and ShurePlus™ Channels app
- Quadversity[™] mode for extended antenna coverage and improved RF signal-to-noise
 Front panel headphone jack enables Dante Cue and Dante Browse monitoring
- 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
- Optional DC module available to support redundant power

Specifications

Dimensions	44 mm \times 483 mm \times 333 mm (1.7 in. \times 19.0 in. \times 13.1 in.), H \times W \times 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)	
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 Typical, XLR Line out	100Ω	
Full Scale Output 200 kΩ load	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 Note: For connection of one additional receiver in the same band	
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 Model-dependent	AD4Q=A: 470-636 MHz AD4Q=B: 606-810 MHz AD4Q=C: 750-960 MHz	



AD4Q Quad-Channel Receiver Front Panel



Quad-Channel Receiver Rear Panel



AD4D Two-Channel Wireless Receiver

Overview

The AD4D Axient Digital Dual Receiver sets a new standard in transparent digital audio and maximum spectral efficiency. Groundbreaking performance features include wide tuning, low latency, and High Density (HD) mode, ensuring solid performance in the most challenging RF environments. Networked control, AES3 + AES67 + Dante™ 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 Workbench⁹ and ShurePlus¹⁰ Channels app Front panel headphone jack enables Dante Cue and Dante Browse monitoring Configurable Ethernet switch for redundant Dante digital output

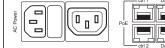
- Channel Quality meter displays RF signal-to-noise
- Locking AC connectors

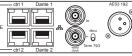
Specifications

Dimensions	44 mm × 483 mm × 333 mm (1.7 in. × 19.0 in. × 13.1 in.), H × W × D	
Weight	4.6 kg (10.1 lbs), without antennas	
Housing	Steel; Extruded aluminum	
Power Requirements	100 to 240 V AC, 50-60 Hz; 0.26 A max.	
Thermal Dissipation	Maximum: 23 W (78 BTU/hr) Idle: 15 W (52 BTU/hr)	
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 Typical, XLR Line out	100Ω	
Full Scale Output 200 kΩ load	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 Note: For connection of one additional receiver in the same band	
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 Model-dependent	AD4D=A: 470-636 MHz AD4D=B: 606-810 MHz AD4D=C: 750-960 MHz	



AD4D **Dual-Channel Receiver** Front Panel







Dual-Channel Receiver Rear Panel



AD4Q-DC Four-Channel Wireless Receiver

Overview

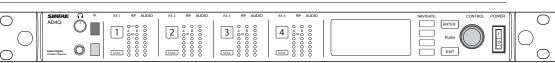
The AD4Q Axient Digital Quad Receiver sets a new standard in transparent digital audio and maximum spectral efficiency. Groundbreaking performance features include wide tuning, low latency, High Density (HD) mode, and Quadversity™, ensuring solid performance in the most challenging RF environments. Networked control, AES3 + AES67 + Dante™ and signal routing options bring a new level of management and flexibility to your entire workflow. Compatible with all Axient

Features

- DC Power Module supports backup power sources and remote operation
- 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

Specifications

Dimensions	44 mm × 483 mm × 333 mm (1.7 in. × 19.0 in. × 13.1 in.), H × W × 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	
Maxiumum DC Input Current	AD4Q: 4.0 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 Typical, XLR Line out	100Ω	
Full Scale Output 200 kΩ load	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 Note: For connection of one additional receiver in the same band	
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	
	AD4Q=A: 470-636 MHz	
RF Carrier Frequency Range Model-dependent	AD4Q=B: 606-810 MHz	
	AD4Q=C: 750-960 MHz	



AD4Q-DC Quad-Channel Receiver Front Panel



AD4Q-DC Quad-Channel Receiver Rear Panel



in respect of errors or omissions. All specifications within this document are subject to change without notice.

AD4D-DC Two-Channel Wireless Receiver

Overview

The AD4D Axient Digital Dual Receiver sets a new standard in transparent digital audio and maximum spectral efficiency. Groundbreaking performance features include wide tuning, low latency, and High Density (HD) mode, ensuring solid performance in the most challenging RF environments. Networked control, AES3 + AES67 + Dante™ and signal routing options bring a new level of management and flexibility to your entire workflow. Compatible with all Axient Digital transmitters.

Features

- DC Power Module supports backup power sources and remote operation
- 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

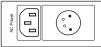
 Front panel headphone jack enables Dante Cue and Dante Browse monitoring
- Configurable Ethernet switch for redundant Dante digital output
- Channel Quality meter displays RF signal-to-noise
- Locking AC connectors

Specifications

Dimensions	44 mm \times 483 mm \times 333 mm (1.7 in. \times 19.0 in. \times 13.1 in.), H \times W \times D	
Weight	4.6 kg (10.1 lbs), without antennas	
Housing	Steel; Extruded aluminum	
Power Requirements	100 to 240 V AC, 50-60 Hz; 0.26 A max.	
Thermal Dissipation	Maximum: 23 W (78 BTU/hr) Idle: 15 W (52 BTU/hr)	
DC Input Voltage Range	10.9–14.8 V DC	
Maxiumum DC Input Current	AD4D: 3.3 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 Typical, XLR Line out	100Ω	
Full Scale Output 200 kΩ load	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 Note: For connection of one additional receiver in the same band	
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	
	AD4D=A: 470-636 MHz	
RF Carrier Frequency Range Model-dependent	AD4D=B: 606-810 MHz	
	AD4D=C: 750-960 MHz	



AD4D-DC Dual-Channel Receiver Front Panel











AD4D-DC Dual-Channel



AD1 Bodypack Transmitter

Overview

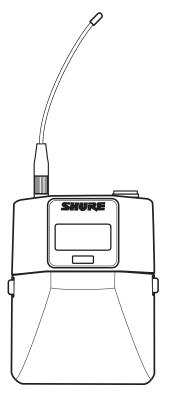
AD series bodypack transmitters deliver impeccable audio quality and RF performance with wide-tuning, High Density (HD) mode, and encryption. Features durable metal construction, AA or SB900A rechargeable power (with dockable charging), and TA4 or LEMO3 connector options.

Features

- Two transmission modes:
 - Standard for optimal coverage
 - New High Density mode for maximum system channel count and robust coverage Encryption-enabled, secure transmission
- External contacts for docked charging
- AA or SB900A Li-ion rechargeable batteries Detachable ¼ wave antenna
- LEMO3 and TA4 connector options

Specifications

•		
Gain Offset Range	-12 to 21 dB (in 1 dB steps)	
Battery Type	Shure SB900A Rechargeable Li-lon or LR6 AA batteries 1.5 V	
Battery Runtime @ 10 mW	Shure SB900A: up to 9 hours Alkaline: up to 8 hours See Battery Runtime Chart	
Dimensions	86 mm × 66 mm × 23 mm (3.4 in. × 2.6 in. × 0.9 in.) H × W × D	
Weight	155 g (5.47 oz.), without batteries	
Housing	Cast Aluminum	
Audio Input		
Connector See drawing for details	4-Pin male mini connector (TA4M) LEM03 connector	
Configuration	Unbalanced	
Impedance See drawing for details	TA4M: $1~\text{M}\Omega$ LEMO: $8.2~\text{M}\Omega$	
Maximum Input Level 1 kHz at 1% THD	Pad Off: 8.5 dBV (7.5 Vpp) Pad On: 20.5 dBV (30 Vpp)	
Preamplifier Equivalent Input Noise (EIN) System Gain Setting $\geq +20$	-120 dBV, A-weighted, typical	
RF Output		
Connector	SMA	
Antenna Type	1/4 wave	
Impedance	50 Ω	
Occupied Bandwidth	<200 kHz	
Modulation Type	Shure Axient Digital Proprietary	
Power	2 mW, 10 mW, 35 mW	



AD1 Bodypack Transmitter

Available Models

AD1	Axient Digital Bodypack, TQG (TA4F) Connector
AD1LEMO3	Axient Digital Bodypack, LEMO3 Connector

See Frequency Range and Ouput Power table, varies by region

Available Frequency Bands

Transmitter

Band	Range (MHz)	Output (mW)
G53	470 to 510	2/10/35
G54	479 to 565	2/10/20
G55	470 to 636*	2/10/35
G56	470 to 636	2/10/35
G57	470 to 616*	2/10/35
G62	510 to 530	2/10/35
H54	520 to 636	2/10/35
K53	606 to 698*	2/10/35
K54	606 to 663**	2/10/35
K55	606 to 694	2/10/35
K56	606 to 714	2/10/35
K57	606 to 790	2/10/35
K58	622 to 698	2/10/35
L54	630 to 787	2/10/35
R52	794 to 806	2/10/35
JB	806 to 810	2/10
X51	925 to 937.5	2/10
X55	941 to 960	2/10/35
Note: Not all free	ujencies available in all re	agions Contact your

Note: Not all frequencies available in all regions. Contact your



authorized Shure dealer for availability.
* with a gap between 608 to 614 MHz
** with a gap between 608 to 614 MHz and a gap between 616 to 653 MHz

AD2 Handheld Transmitter

Overview

AD series hand-held transmitters deliver impeccable audio quality and RF performance with wide-tuning, High Density (HD) mode, and encryption. Features durable metal construction, AA or SB900A rechargeable power (with dockable charging), and black or nickel finish options.

Features

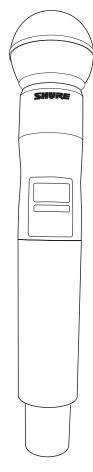
- Two transmission modes:
- Standard for optimal coverage
- New High Density mode for maximum system channel count and robust coverage Encryption-enabled, secure transmission
- Frequency and power lockout
- Rugged metal construction in black or nickel finish External contacts for docked charging
- AA or SB900A Li-ion rechargeable batteries
- Backlit LCD with easy-to-navigate menu and controls
- Low-profile, lockable power switch Available cartridges: KSM8, KSM9HS, Beta® 87A/87C, Beta® 58, SM58®, VP68

Specifications

Mic Offset Range	-12 to 21 dB (in 3 dB steps)
Battery Type	Shure SB900A Rechargeable Li-lon or LR6 AA batteries 1.5 V
Battery Runtime @ 10 mW	Shure SB900A: up to 9 hours Alkaline: 8 hours See Battery Runtime Chart
Dimensions	256 mm × 51 mm (10.1 in. × 2.0 in.) L × D
Weight	340 g (12.0 oz.), without batteries
Housing	Cast aluminum
Audio Input	
Configuration	Unbalanced
Maximum Input Level 1 kHz at 1% THD,	145 dB SPL, typical (SM58) Note: dependent on microphone type
RF Output	
Antenna Type	Integrated Single-Band Helical
Occupied Bandwidth	<200 kHz
Modulation Type	Shure Axient Digital Proprietary
Power	2 mW, 10 mW, 35 mW See Frequency Range and Ouput Power table, varies by region

Available Models

AD2	Axient Digital Handheld Transmitter	
AD2/B58A	with Beta® 58A Supercardioid Dynamic Vocal Wireless Microphone Capsule	
AD2/B87A	with Beta® 87A Supercardioid Condenser Vocal Wireless Microphone Capsule	
AD2/B87C	with Beta® 87C Cardioid Condenser Vocal Wireless Microphone Capsule	
AD2/K8N	with KSM8 Dualdyne™ Cardioid Dynamic Wireless Microphone Capsule (Nickel)	
AD2/K8B	with KSM8 Dualdyne™ Cardioid Dynamic Wireless Microphone Capsule (Black)	
AD2/K9N	with KSM9 Dual-Pattern Condenser Wireless Microphone Capsule (Black)	
AD2/K9HSN	with KSM9HS Multi-Pattern Dual Diaphragm Condenser Wireless Microphone Capsule (Black)	
AD2/K9B	with KSM9 Dual-Pattern Condenser Wireless Microphone Capsule (Nickel)	
AD2/K9HSB	with KSM9HS Multi-Pattern Dual Diaphragm Condenser Wireless Microphone Capsule (Nickel)	
AD2/SM58	with VP68 Omnidirectional Condenser Wireless Microphone Capsule	
AD2/VP68	with VP68 Omnidirectional Condenser Wireless Microphone Capsule	



AD2 Handheld Transmitter

Available Frequency Bands

Band	Range (MHz)	Transmitter Output (mW)
G53	470 to 510	2/10/35
G54	479 to 565	2/10/20
G55	470 to 636*	2/10/35
G56	470 to 636	2/10/35
G57	470 to 616*	2/10/35
G62	510 to 530	2/10/35
H54	520 to 636	2/10/35
K53	606 to 698*	2/10/35
K54	606 to 663**	2/10/35
K55	606 to 694	2/10/35
K56	606 to 714	2/10/35
K57	606 to 790	2/10/35
K58	622 to 698	2/10/35
L54	630 to 787	2/10/35
R52	794 to 806	2/10/35
JB	806 to 810	2/10
X51	925 to 937.5	2/10
X55	941 to 960	2/10/35

Note: Not all frequencies available in all regions. Contact your



authorized Shure dealer for availability.
* with a gap between 608 to 614 MHz
** with a gap between 608 to 614 MHz and a gap between 616 to 653 MHz

ADX1M Micro Bodypack Transmitter

Overview

ADX1M delivers impeccable audio quality and RF performance, and is equipped with ShowLink® remote control for real-time parameter adjustments and interference avoidance. The contoured form factor and lightweight PEI construction offer both comfort and heat resistance. This transmitter features wide tuning, High Density (HD) mode, encryption, and advanced rechargeabilty. Membrane switches and LEMO connector protect against moisture, while the OLED display provides excellent visibility in low-light environments.

Features

- Small and streamlined design for better concealment and wear (68mm \times 60mm \times 18mm)
- High-contrast OLED display
 Diversity ShowLink enabled for remote transmitter control and automatic interference avoidance
- Patent-pending internal adaptive antenna for optimized signal when ADX1M is worn against the body
- Ultem® PEI construction for heat resistance and durability Recessed LEMO connector
- Sealed buttons and LEMO connection for protection against sweat and moisture ingress*
- Two transmission modes: Standard for optimal coverage and new High Density for maximum system channel count and robust coverage
- Encryption-enabled, secure transmission
- Up to 7 hours of runtime with SB910M rechargeable batteries
- Detachable belt clip

Specifications

-	
Gain Offset Range	-12 to 21 dB (in 1 dB steps)
Battery Type	Shure SB910M Rechargeable Li-lon
Battery Runtime @ 10 mW	SB910M: up to 7 hours <i>t</i>
Dimensions	60.4 mm × 68.0 mm × 22.1 mm (2.4 in. × 2.7 in. × 0.9 in.) H × W × D
Weight	Weight 53 g (1.9 oz.), without battery
Housing	Ultem® (PEI)
Audio Input	
Connector See drawing for details	LEM03 connector
Configuration	Unbalanced
Impedance See drawing for details	8.2 ΜΩ
Maximum Input Level 1 kHz at 1% THD	Pad Off: 8.5 dBV (7.5 Vpp) Pad On: 20.5 dBV (30 Vpp)
Preamplifier Equivalent Input Noise (EIN) System Gain Setting $\geq +20$	-120 dBV, A-weighted, typical
RF Output	
Antenna Type	Integrated Helical

Power

Impedance Occupied Bandwidth

Modulation Type

ShowLink [®]	
Network Type	IEEE 802.15.4
Antenna Type	ZigBee Dual Conformal
Frequency Range	2.40 to 2.4835 GHz (24 Channels)
RF Output Power Varies by Region	10 dBm (ERP)

Varies by Region; See Available Frequency Bands and Ouput Power table

Available Models

ADX1M	Axient Digital Micro Rodynack Transmitter LEMO3 Connector	

50 Ω

<200 kHz

Shure Axient Digital Proprietary

2 mW, 10 mW, 20 mW



ADX1M Micro Bodypack

Available Frequency Bands

r V)

Note: Not all frequencies available in all regions. Contact your authorized Shure dealer for availability.



^{*} with a gap between 608 to 614 MHz

** with a gap between 608 to 614 MHz and a gap between 616 to 653 MHz

ADX1 ShowLink® Enabled Bodypack Transmitter

Overview

ADX1, like all ADX transmitters, sets the stage for exceptional performance, with wide tuning up to 184 MHz, interference protection, advanced rechargeability, streamlined design, and ShowLink® remote control for real-time parameter adjustments right from the booth.

Features

- Removable antenna and fully concealed buttons and switch
- Two connector options: TA4 and LEMO3
- Advanced control menu with powerful features Durable, moisture-resistant,* lightweight metal case
- Up to 10 hours of runtime with SB910 rechargeable batteries
- Diversity ShowLink enabled for remote transmitter control and automatic interference avoidance External contacts for docked charging

-12 to 21 dB (in 1 dB steps)

ZigBee Dual Conformal

10 dBm (ERP)

2.40 to 2.4835 GHz (24 Channels)

- Two transmission modes: Standard for optimal coverage and new High Density for maximum system channel count and robust coverage
- Encryption-enabled, secure transmission

Specifications

Gain Offset Range

Battery Type	Shure SB910 Rechargeable Li-lon
Battery Runtime @ 10 mW	SB910: up to 10 hours <i>t</i>
Dimensions	91 mm × 68 mm × 19 mm (3.6 in. × 2.7 in. × 0.8 in.) H × W × D
Weight	142g (5.0 oz.), without battery
Housing	Aluminum
Audio Input	
Connector See drawing for details	4-pin Male Mini TQG (TA4M) Connector LEM03 connector
Configuration	Unbalanced
Impedance See drawing for details	TA4M: $1~\mathrm{M}\Omega$ LEMO: $8.2~\mathrm{M}\Omega$
Maximum Input Level 1 kHz at 1% THD	Pad Off: 8.5 dBV (7.5 Vpp) Pad On: 20.5 dBV (30 Vpp)
Preamplifier Equivalent Input Noise (EIN) System Gain Setting ≥ +20	-120 dBV, A-weighted, typical



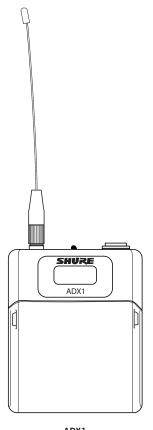
Network Type

Varies by Region

Connector	SMA
Antenna Type	UHF ¼ Wave
Impedance	50 Ω
Occupied Bandwidth	<200 kHz
Modulation Type	Shure Axient Digital Proprietary
Power	2 mW, 10 mW, 20 mW, 40mW Varies by Region; See Available Frequency Bands and Ouput Power table.
Showl ink®	

Ariterina Type
Frequency Range
DE Outrout Danier

Available Models		
ADX1	Axient Digital ShowLink®-Enabled Bodypack Transmitter, TA4M Connector	
ADX1LEMO3	Axient Digital ShowLink®-Enabled Bodypack Transmitter, LEMO3 Connector	



ADX1 ShowLink®_Enabled **Bodypack Transmitter**

Available Frequency Bands

Band	Range (MHz)	Transmitter Output (mW)
G53	470 to 510	2/10/40
G54	479 to 565	2/10/20
G55	470 to 636*	2/10/40
G56	470 to 636	2/10/40
G57	470 to 616*	2/10/40
G62	510 to 530	2/10/40
H54	520 to 636	2/10/40
K53	606 to 698*	2/10/40
K54	606 to 663**	2/10/40
K55	606 to 694	2/10/40
K56	606 to 714	2/10/40
K57	606 to 790	2/10/40
K58	622 to 698	2/10/40
L54	630 to 787	2/10/40
R52	794 to 806	2/10/40
JB	806 to 810	2/10/40
X51	925 to 937.5	2/10
X55	941 to 960	2/10/40

Note: Not all frequencies available in all regions. Contact your authorized Shure dealer for availability



^{*} with a gap between 608 to 614 MHz

** with a gap between 608 to 614 MHz and a gap between 616 to 653 MHz

ADX2 ShowLink® Enabled Handheld Transmitter

Overview

ADX2, like all ADX transmitters, sets the stage for exceptional performance, with wide tuning up to 184 MHz, interference protection, advanced rechargeability, streamlined design, and ShowLink remote control for real-time parameter adjustments right from the booth.

Features

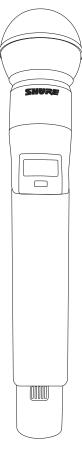
- Durable, moisture-resistant, lightweight metal case
- Available in black or nickel finish
- Up to 9 hours of runtime with SB920 rechargeable batteries External contacts for docked charging with optional fully covered radome
- Diversity ShowLink enabled for remote transmitter control and automatic interference avoidance
- Two transmission modes: Standard for optimal coverage and new High Density for maximum system channel count and robust coverage
- Encryption-enabled, secure transmission

Specifications

Mic Offset Range	-12 to 21 dB (in 3 dB steps)	
Battery Type	Shure SB920 Rechargeable Li-Ion	
Battery Runtime @ 10 mW	Shure SB920: Up to 9 hours	
Dimensions	254 mm \times 51 mm (10.0 in. \times 2.0 in.) L \times Dia.	
Weight	179 g (6.3 oz.), without battery	
Housing	Cast Aluminum	
Audio Input		
Configuration	Unbalanced	
Maximum Input Level 1 kHz at 1% THD,	145 dB SPL, typical (SM58) Note: dependent on microphone type	
RF Output		
Antenna Type	Dual-Band Helical	
Occupied Bandwidth	<200 kHz	
Modulation Type	Shure Axient Digital Proprietary	
Power	2 mW, 10 mW, 20 mW, 40mW Varies by Region; See Available Frequency Bands and Ouput Power table.	
ShowLink®		
Network Type	IEEE 802.15.4	
Antenna Type	ZigBee Dual Conformal	
Frequency Range	2.40 to 2.4835 GHz (24 Channels)	
RF Output Power Varies by Region	10 dBm (ERP)	



ADX2	Axient Digital ShowLink®-Enabled Handheld Transmitter
ADX2/B58A	with Beta® 58A Supercardioid Dynamic Vocal Wireless Microphone Capsule
ADX2/B87A	with Beta 87A Supercardioid Condenser Vocal Wireless Microphone Capsule
ADX2/B87C	with Beta 87C Cardioid Condenser Vocal Wireless Microphone Capsule
ADX2/K8N	with KSM8 Dualdyne™ Cardioid Dynamic Wireless Microphone Capsule (Nickel)
ADX2/K8B	with KSM8 Dualdyne™ Cardioid Dynamic Wireless Microphone Capsule (Black)
ADX2/K9N	with KSM9 Dual-Pattern Condenser Wireless Microphone Capsule (Black)
ADX2/K9HSN	with KSM9HS Multi-Pattern Dual Diaphragm Condenser Wireless Microphone Capsule (Black)
ADX2/K9B	with KSM9 Dual-Pattern Condenser Wireless Microphone Capsule (Nickel)
ADX2/K9HSB	with KSM9HS Multi-Pattern Dual Diaphragm Condenser Wireless Microphone Capsule (Nickel)
ADX2/SM58	with VP68 Omnidirectional Condenser Wireless Microphone Capsule
ADX2/VP68	with VP68 Omnidirectional Condenser Wireless Microphone Capsule



ADX2 ShowLink®_Enabled Handheld Transmitter

Available Frequency Bands

Band	Range (MHz)	Transmitter Output (mW)
G53	470 to 510	2/10/40
G54	479 to 565	2/10/20
G55	470 to 636*	2/10/40
G56	470 to 636	2/10/40
G57	470 to 616*	2/10/40
G62	510 to 530	2/10/40
H54	520 to 636	2/10/40
K53	606 to 698*	2/10/40
K54	606 to 663**	2/10/40
K55	606 to 694	2/10/40
K56	606 to 714	2/10/40
K57	606 to 790	2/10/40
K58	622 to 698	2/10/40
L54	630 to 787	2/10/40
R52	794 to 806	2/10/40
JB	806 to 810	2/10
X51	925 to 937.5	2/10
X55	941 to 960	2/10/40

Note: Not all frequencies available in all regions. Contact your authorized Shure dealer for availability.



^{*} with a gap between 608 to 614 MHz

** with a gap between 608 to 614 MHz and a gap between 616 to 653 MHz

ADX2FD ShowLink® Enabled Frequency Diversity Handheld Transmitter

Overview

ADX2FD, like all ADX transmitters, sets the stage for exceptional performance, with wide tuning up to 184 MHz, interference protection, advanced rechargeability, streamlined design, and ShowLink remote control for real-time parameter adjustments right from the booth.

Features

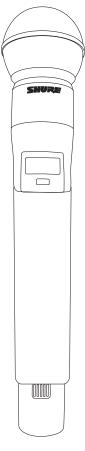
- Ability to transmit RF signal on two discrete carriers
- Optional 50mW High Power mode for driving increased power on a single frequency
- Durable, moisture-resistant, lightweight metal case Available in black or nickel finish
- Up to 6.5 hours of runtime with SB920 rechargeable batteries when transmitting on two RF carriers, up to 9 hours battery life when transmitting on a single RF carrier.
 External contacts for docked charging with optional fully covered radome
- Diversity ShowLink enabled for remote transmitter control and automatic interference avoidance
- Two transmission modes: Standard for optimal coverage and new High Density for maximum system channel count and robust coverage
- Encryption-enabled, secure transmission

Specifications

Mic Offset Range	-12 to 21 dB (in 3 dB steps)
Battery Type	Shure SB920 Rechargeable Li-lon
Battery Runtime @ 10 mW	Single Carrier Mode: Up to 9 hours Frequency Diversity: Up to 6.5 hours
	254 mm \times 51 mm (10.0 in. \times 2.0 in.) L \times Dia.
Weight	179 g (6.3 oz.), without battery
Housing	Cast Aluminum
Audio Input	
Configuration	Unbalanced
Maximum Input Level 1 kHz at 1% THD,	145 dB SPL, typical (SM58) Note: dependent on microphone type
RF Output	
Antenna Type	Integrated Dual-Band Helical
Occupied Bandwidth	<200 kHz
Channel-to-Channel Spacing	Standard Mode: 350 kHz High-Density Mode: 125 kHz
Modulation Type	Shure Axient Digital Proprietary
Power	Single Carrier Mode: 2 mW, 10 mW, 20 mW, 50 mW Frequency Diversity Mode: 2 × 20 mW Varies by Region; See Available Frequency Bands and Ouput Power table.
ShowLink®	
Network Type	IEEE 802.15.4
Antenna Type	ZigBee Dual Conformal
Frequency Range	2.40 to 2.4835 GHz (24 Channels)
RF Output Power Varies by Region	10 dBm (ERP)

Available Models

ADX2FD	Axient Digital ShowLink®–Enabled Frequency Diversity Handheld Transmitter
ADX2FD/B58A	with Beta® 58A Supercardioid Dynamic Vocal Wireless Microphone Capsule
ADX2FD/B87A	with Beta 87A Supercardioid Condenser Vocal Wireless Microphone Capsule
ADX2FD/B87C	with Beta 87C Cardioid Condenser Vocal Wireless Microphone Capsule
ADX2FD/K8N	with KSM8 Dualdyne™ Cardioid Dynamic Wireless Microphone Capsule (Nickel)
ADX2FD/K8B	with KSM8 Dualdyne™ Cardioid Dynamic Wireless Microphone Capsule (Black)
ADX2FD/K9N	with KSM9 Dual-Pattern Condenser Wireless Microphone Capsule (Black)
ADX2FD/K9HSN	with KSM9HS Multi-Pattern Dual Diaphragm Condenser Wireless Microphone Capsule (Black)
ADX2FD/K9B	with KSM9 Dual-Pattern Condenser Wireless Microphone Capsule (Nickel)
ADX2FD/K9HSB	with KSM9HS Multi-Pattern Dual Diaphragm Condenser Wireless Microphone Capsule (Nickel)
ADX2FD/SM58	with VP68 Omnidirectional Condenser Wireless Microphone Capsule
ADX2FD/VP68	with VP68 Omnidirectional Condenser Wireless Microphone Capsule



ADX2FD Frequency Diversity Handheld Transmitter

Available Frequency Bands

Band	Range (MHz)		smitter it (mW)
		Single Carrier	Frequency Diversity
G53	470 to 510	2/10/50	2/10/20
G54	479 to 565	2/10/20	2/10/20
G55	470 to 636*	2/10/50	2/10/20
G56	470 to 636	2/10/50	2/10/20
G57	470 to 616*	2/10/50	2/10/20
G62	510 to 530	2/10/50	2/10/20
H54	520 to 636	l,	I/A
K53	606 to 698*	2/10/50	2/10/20
K54	606 to 663**	١	I/A
K55	606 to 694	2/10/50	2/10/20
K56	606 to 714	2/10/50	2/10/20
K57	606 to 790	2/10/50	2/10/20
K58	622 to 698	2/10/50	2/10/20
L54	630 to 787	2/10/50	2/10/20
R52	794 to 806	2/10/50	2/10/20
JB	806 to 810	N	I/A
X51	925 to 937.5	2/10	2/10/20
X55	941 to 960	2/10/50	2/10/35
Note: Not a	Il frequencies available	in all regions.	Contact your

authorized Shure dealer for availability.



^{*} with a gap between 608 to 614 MHz

** with a gap between 608 to 614 MHz and a gap between 616 to 653 MHz

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.

Features

- 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

Specifications

RF Tuning Frequency Range	470-865, 925-952 MHz	
RF Tuning Step Size	25, 200, 1000 kHz	
	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.	
Scan Time	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	
TTOTTOTTE TITLOTTOOD	Dual Port Ethernet 10/100	



Component Specifications *(continued)*

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)
9509023	33-inch Coaxial Cable* (1)

^{*} with integrated bulkhead for front mounting antennas.



AXT600 Spectrum Manager Front



AXT600 Spectrum Manager Back



AXT630, AXT631 Antenna Distribution Systems

Overview

Antenna Distribution Systems send the RF signal from a single pair of antennas to multiple receivers. Ultra-linear amplification and adjustable attenuation optimize performance in difficult RF environments. Selectable input filters match the available frequency bands of transmitters, providing extra protection from strong out-of-band signals. BNC antenna output pairs distribute band-filtered signal to up to 4 receivers. A pair of wideband cascade ports supplies a wideband RF signal to Spectrum Managers or additional antenna distribution amplifiers. Networking enables Wireless Workbench® 6 system control of filtering ranges and attenuation. To maximize use of available RF spectrum, two models of the Antenna Distribution System are available. The AXT630 covers a frequency range of 470-698 MHz and the AXT631 covers a frequency range of 606-814 MHz.

Features

- Selectable input filtering provides system-wide protection against strong out-of-band signals

- Wideband filtering option covers multiple bands
 Up to 15 dB of selectable RF attenuation for signal-to-noise optimization
 Front panel interface and Wireless Workbench 6 software control provide easy setup and control of filtering, antenna power, and attenuation
- BNC outputs: 4 antenna output pairs
- Wideband RF cascade port with selectable 3 dB make-up gain for connecting wideband devices Ethernet Networking: 2 PoE enabled Ethernet ports
- IEC power ports enable daisy-chaining of AC power

Specifications

44 mm x 483 mm x 366 mm (1.7 in. x 19.0 in. x 14.4 in.), H x W x D		
4.6 kg (10.1 lbs)		
Steel; Extruded aluminum		
-18°C (0°F) to 63°C (145°F)		
-29°C (-20°F) to 74	°C (165°F)	
100 to 240 V AC, 5		
1.0 A RMS (referen	ced at 120 V AC)	
BNC		
Unbalanced, active		
AXT630:	Wideband: 470-698 MHz Band G1: 470-530 MHz Band H4: 518-578 MHz Band J5: 578-638 MHz Band L3: 638-698 MHz	
AXT631:	Wideband: 606–814 MHz Band K4E: 606–666 MHz Band M8: 666–730 MHz Band P8, P9: 710–790 MHz	
	Band Q5: 740–814 MHz	
50 Ω	Band Q5: 740-814 MHZ	
50 Ω 12 V DC, 150 mA (
	300 mA maximum)	
12 V DC, 150 mA (300 mA maximum) MHz	
12 V DC, 150 mA (3 AXT 630: 470–698	300 mA maximum) MHz	
12 V DC, 150 mA (3 AXT 630: 470–698	300 mA maximum) MHz	
12 V DC, 150 mA (AXT 630: 470–698 AXT 631: 606–814	300 mA maximum) MHz	
12 V DC, 150 mA (3 AXT 630: 470–698 AXT 631: 606–814 BNC (4 pairs)	300 mA maximum) MHz	
12 V DC, 150 mA (: AXT 630: 470–698 AXT 631: 606–814 BNC (4 pairs) Unbalanced, active 50 Ω Cascade Enabled: -	300 mA maximum) MHz	
12 V DC, 150 mA (: AXT 630: 470–698 AXT 631: 606–814 BNC (4 pairs) Unbalanced, active 50 Ω Cascade Enabled: -	300 mA maximum) MHz MHz MHz 15 dB to 0 dB (In 1 dB steps)	
12 V DC, 150 mA (: AXT 630: 470–698 AXT 631: 606–814 BNC (4 pairs) Unbalanced, active 50 Ω Cascade Enabled: - Cascade Disabled:	300 mA maximum) MHz MHz MHz 15 dB to 0 dB (In 1 dB steps)	
12 V DC, 150 mA (: AXT 630: 470–698 AXT 631: 606–814 BNC (4 pairs) Unbalanced, active 50 Ω Cascade Enabled: - Cascade Disabled:	300 mA maximum) MHz MHz MHz 15 dB to 0 dB (In 1 dB steps)	
12 V DC, 150 mA (: AXT 630: 470–698 AXT 631: 606–814 BNC (4 pairs) Unbalanced, active 50 Ω Cascade Enabled: - Cascade Disabled: - >25 dBm, typical	300 mA maximum) MHz MHz 15 dB to 0 dB (In 1 dB steps) -12 dB to +3 dB (In 1 dB steps)	
12 V DC, 150 mA (: AXT 630: 470–698 AXT 631: 606–814 BNC (4 pairs) Unbalanced, active 50 Ω Cascade Enabled: - Cascade Disabled: - >25 dBm, typical	300 mA maximum) MHz MHz 15 dB to 0 dB (In 1 dB steps) -12 dB to +3 dB (In 1 dB steps)	
12 V DC, 150 mA (: AXT 630: 470–698 AXT 631: 606–814 BNC (4 pairs) Unbalanced, active 50 Ω Cascade Enabled: - Cascade Disabled: - >25 dBm, typical BNC (1 pair) Unbalanced, wideb	300 mA maximum) MHz MHz 15 dB to 0 dB (In 1 dB steps) -12 dB to +3 dB (In 1 dB steps)	
12 V DC, 150 mA (: AXT 630: 470–698 AXT 631: 606–814 BNC (4 pairs) Unbalanced, active 50 Ω Cascade Enabled: - Cascade Disabled: - >25 dBm, typical BNC (1 pair) Unbalanced, wideb. 50 Ω	300 mA maximum) MHz MHz 15 dB to 0 dB (In 1 dB steps) -12 dB to +3 dB (In 1 dB steps)	
12 V DC, 150 mA (: AXT 630: 470–698 AXT 631: 606–814 BNC (4 pairs) Unbalanced, active 50 Ω Cascade Enabled: - Cascade Disabled: - >25 dBm, typical BNC (1 pair) Unbalanced, wideb. 50 Ω	300 mA maximum) MHz MHz 15 dB to 0 dB (In 1 dB steps) -12 dB to +3 dB (In 1 dB steps)	
12 V DC, 150 mA (: AXT 630: 470–698 AXT 631: 606–814 BNC (4 pairs) Unbalanced, active 50 Ω Cascade Enabled: - Cascade Disabled: - >25 dBm, typical BNC (1 pair) Unbalanced, wideb: 50 Ω <5 dB	300 mA maximum) MHz MHz 15 dB to 0 dB (In 1 dB steps) 12 dB to +3 dB (In 1 dB steps) and	
	4.6 kg (10.1 lbs) Steel; Extruded alur -18°C (0°F) to 63°C -29°C (-20°F) to 74 100 to 240 V AC, 5 1.0 A RMS (referen BNC Unbalanced, active AXT630:	



in respect of errors or omissions. All specifications within this document are subject to change without notice.

Component Specifications *(continued)*

Included Components

UA802	2-foot Coaxial Antenna Cable (RG-58) (12)
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)

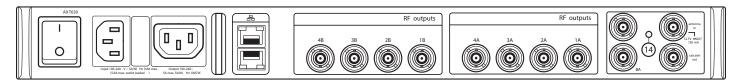
^{*} with integrated bulkhead for front mounting antennas.

Optional Accessories

1/2 Wave Antennas	
UA820G	744-865 MHz
UA820H4	690-746 MHz
UA820J	554-590 MHz
UA820K	606-666 MHz
UA820L3	638-698 MHz
UA820M	694-758 MHz
UA820Q	740-814 MHz
UA820P8	710-790 MHz
Antennas	
UA860SWB	Passive Omnidirectional Antenna (470-1100 MHz)
PA805SWB	Passive Directional Antenna (470-952 MHz)
HA-8089	PWS Helical Antenna (480-900 MHz)
In-Line RF Amplifiers	
UA830WB	470-900 MHz
UA830USTV	470-698 MHz
Active Directional Antennas	
UA870WB	470-900 MHz
UA870USTV	470-698 MHz
Cables	
UA825	25-foot Coaxial Cable RG8/X
UA850	50-foot Coaxial Cable RG8/X
UA8100	100-foot (30.4 m) Antenna Extension Cable



AXT630 Antenna Distribution System Front



AXT630 Antenna Distribution System Back



AD610 Showlink® Wireless Access Point

Overview

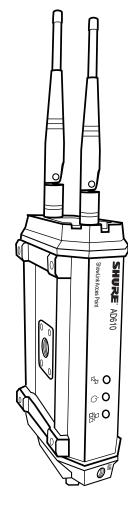
The AD610 ShowLink® access point enables real-time remote control of all ShowLink-enabled Axient® transmitters, including both ADX and AXT series models. The access point allows comprehensive management of transmitter parameters from the receiver or Wireless Workbench® using 2.4 GHz (IEEE 802.15.4) wireless communication. All parameter changes occur without interruption to the performer.

Features

- Wireless network connectivity between all linked transmitters and access points
- Enables real-time wireless remote control of up to 24 transmitters per access point ShowLink offers ability to adjust gain, change frequencies, mute signals and more True Diversity antenna scheme maintains a robust link in the 2.4 GHz frequency range
- Automatic channel selection scans the 2.4 GHz range for the best channel. Scans can be saved for future analysis in Wireless Workbench
- Automatic frequency agility moves he network to the best available channel if signal degrades Is compatible with Axient Digital ADX series and Axient analog (AXT series) systems.

Specifications

Antenna Type	2 Omnidirectional 2.4 GHz	
Capacity	24 Axient transmitters	
Mounting Type	WA371 Mic Clip or 1/4-20 thread mount	
Operating Temperature Range	−18 °C (0 °F) to 63 °C (145 °F)	
Storage Temperature Range	−29 °C (−20 °F) to 74 °C (165 °F)	
Dimensions	190 mm x 102 mm x 47 mm (7.34 in. x 3.960 in. x 1.825 in.) H x W x D, without antenna	
Weight	464 g (16.3 oz.), without antenna	
Housing	Extruded Aluminum	
Power Requirements	Power over Ethernet (PoE) Class 1: 36 to 57 VDC/VAC External Power Supply (if PoE is unavailable): 15 V DC (600 mA), double insulated	
ShowLink		
Network Type	IEEE 802.15.4	
Frequency Range	2.40 to 2.4835 GHz (16 Channels)	
RF Output Power	10 dBm (ERP) / 20 dBm (ERP) Dependent on applicable country regulations	
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.	
Antenna Connection		
Connector	2 SMA (Shell=Ground, Center=Signal)	
Impedance	50 Ω	
Scanning Radio		
Scanner RF Sensitivity	-106 dBm, typical (integrated antenna)	
Networking		
Network Interface	Ethernet 10/100	
Network Addressing Capability	DHCP or Manual IP address (configurable using Wireless Workbench)	



AD610 ShowLink® Wireless Access Point

Available Models

AD610	Showlink Wireless Access Point

Furnished Accessories

WA371	Wireless microphone clip for mounting on a microphone stand	C825	Shielded 25-foot Ethernet cable for ShowLink access point, RJ45-to-EtherCon connector
31A1856	Euro thread adapter for WA371	PS43	Power Supply (regionally dependent)

Optional Accessories

- 1			
AXT644	Directional 2.4 GHz Patch Antenna		



SBC840 Eight-Bay Networked Charger

Overview

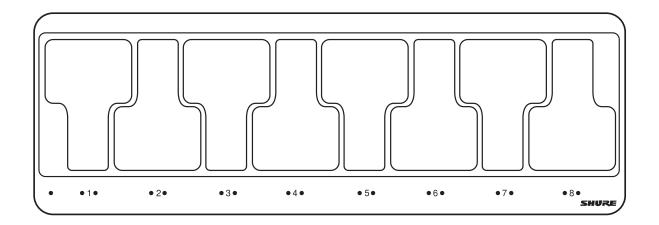
The SBC840 networked charger provides a compact charging and storage solution for any combination of up to 8 SB910 or SB920 batteries. The charger is network-enabled to allow for remote monitoring of charger and battery parameters using Shure Wireless Workbench software.

Features

- Charging for any combination of up to 8 SB910 or SB920 batteries
- Compact design fits inside 1RU drawers
- LEDs indicate charge status and errors Storage mode to prepare batteries for long-term storage
- Network-enabled for remote monitoring

Specifications

Battery Type	Up to 8 SB910/SB920
Charge Current	1.25 A maximum
Charge Time	1 hour: 50% 3 hours: 100%
External Power Supply	PS60
Power Requirements	0 °C (32 °F) to 60 °C (140 °F)
Housing	Molded ABS
Dimensions	35 mm \times 397 mm \times 137 mm (1.4 in. \times 15.6 in. \times 5.40 in.) L \times W \times D
Weight	0.91 kg (2 lb), Without Batteries
Operating Temperature Range Note: Battery characteristics may limit this range	−18 °C (0 °F) to 50 °C (122 °F)
Storage Temperature Range Note: Battery characteristics may limit this range	-29 °C (-20 °F) to 74 °C (165°F)
Networking	
Network Interface	10/100 Mbps Ethernet
Network Addressing Capability	DHCP or Manual IP address



SBC840 8-bay Networked Charger



SBC840M Eight-Bay Networked Charger

Overview

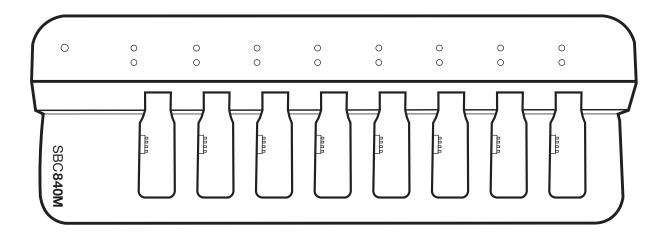
The SBC840M networked charger provides a compact charging and storage solution for up to 8 SB910M. The charger is network-enabled to allow for remote monitoring of charger and battery parameters using Shure Wireless Workbench software.

Features

- Charging for up to 8 SB910M batteries
- LEDs indicate charge status and errors
- Storage mode to prepare batteries for long-term storage Network-enabled for remote monitoring

Specifications

Battery Type	Up to 8 SB910M
Charge Current	5.75 A maximum
Charge Time	1 hour: 50% 3 hours: 100%
External Power Supply	PS60
Power Requirements	15 V, 3.33 A maximum
Housing	Molded ABS
Dimensions	52 × 88 × 250 mm (2.0 × 3.5 × 9.9 in) H × W × D
Weight	425 g (1 lb) Without Batteries
Operating Temperature Range Note: Battery characteristics may limit this range	–18 °C (0 °F) to 50 °C (122 °F)
Storage Temperature Range Note: Battery characteristics may limit this range	-29 °C (-20 °F) to 74 °C (165°F)
Networking	
Network Interface	10/100 Mbps Ethernet
Network Addressing Capability	DHCP or Manual IP address



SBC840M 8-bay Networked Charger

in respect of errors or omissions. All specifications within this document are subject to change without notice.



SBC240 Two-Bay Networked Charger

Overview

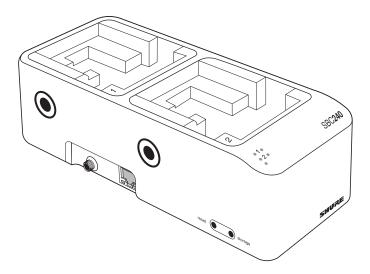
The SBC240 networked docking charger provides a compact charging and storage solution for any combination of 2 SB910/SB920 batteries or ADX1, ADX2, or ADX2FD transmitters using Shure rechargeable batteries. The charger is network-enabled to allow for remote monitoring of charger and battery parameters using Shure Wireless Workbench software. Connect up to 4 SBC240 chargers together to share power and network connectivity.

Features

- Charging for any combination of up to 2 SB910/SB920 batteries or ADX1, ADX2, or ADX2FD transmitters using Shure rechargeable batteries
- Connect up to 4 chargers together to share power and network connections and save space LEDs indicate charge status and errors $\,$
- Storage mode to prepare batteries for long-term storage
- Network-enabled for remote monitoring

Specifications

Battery Type	Up to 2 SB910/SB920
Compatible Trasnmitters	Up to 2 SB910/SB920
Charge Current	1.25 A maximum
Charge Time	1 hour: 50% 3 hours: 100%
External Power Supply	PS60
Power Requirements	15 V, 3.33 A maximum
Housing	Molded ABS
Dimensions	65.25 mm × 88.74 mm × 210.82 mm (2.57 in. × 3.49 in. × 8.30 in.) L × W × D
Weight	0.45 kg (1 lb), Without Batteries
Operating Temperature Range Note: Battery characteristics may limit this range	−18 °C (0 °F) to 50 °C (122 °F)
Storage Temperature Range Note: Battery characteristics may limit this range	–29 °C (–20 °F) to 74 °C (165°F)
Networking	
Network Interface	10/100 Mbps Ethernet
Network Addressing Capability	DHCP or Manual IP address



SBC240 2-Bay Networked Charger

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SBRC Battery Rack Charger

Overview

The Shure Battery Rack Charger (SBRC) provides a seamless, touring-ready battery charging and storage solution. Interchangeable charging modules support a variety of Shure Lithium-ion batteries, accommodating up to eight batteries in a single rack space. An easy-to-read, front-panel LCD screen displays critical parameters including charge levels, time-to-full, and battery health indicators such as temperature and cycle count. When connected to a network, Shure Wireless Workbench® and ShurePlus Channels software provide remote monitoring of battery status.

Features

- Comprehensive status display with straightforward three-button interface control
- Easily visible charge status by percentage and time-to-full readings in hours and minutes
- Battery health tracking metrics indicate percentage of original capacity and cycle count Remote monitoring of battery status through Shure Wireless Workbench® software
- Interchangeable charging modules allow users to mix and match up to eight Shure bodypack and handheld transmitter batteries
- Charges batteries to 50 percent capacity within one hour and full capacity within three hours
- Storage mode prepares batteries for optimal long-term storage Charges Shure SB900A, AXT910, and AXT920 rechargeable batteries

Specifications

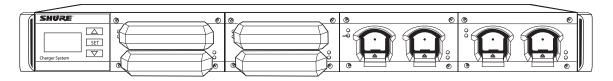
Battery Type	Up to 8 rechargeable Li-lon batteries	
Charge Time	50%=1 hour; 100%=3 hours	
Charging Module Type	Up to 4 charging modules in any combination	
Operating Temperature Range	−18 °C (0 °F) to 63 °C (145 °F)	
Battery Charging Temperature Range	0 °C (32 °F) to 60 °C (140 °F)	
Storage Temperature Range	−29 °C (−20 °F) to 74 °C (165 °F)	
Dimensions	44 mm × 483 mm × 366 mm (1.7 in. × 19.0 in. × 14.4 in.), H × W × D	
Weight	4.4 kg (9.8 lbs), without batteries or charging modules	
Housing	Steel; Extruded aluminum	
Power Requirements	100 to 240 V AC, 50-60 Hz	
Current Drain	1.8 A RMS (referenced at 90 V AC)	
Networking		
Network Interface	Ethernet 10/100 Mbps	
Network Addressing Capability	DHCP or Manual IP address	

Furnished Accessories

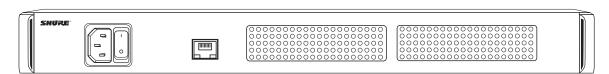
(Region Dependent)	IEC AC Power Cable (1)	90XN1371	Hardware Kit (1)
C803	Shielded 3-foot Ethernet Cable (1)	30B13476	Mounting Screws for Charger Modules (8)

Optional Accessories

SBM900	Charging Module for SB900A	SBM920	Charging Module for SB920
SBM910	Charging Module for SB910		
SBM910M	Charging Module for SB910M		



SBRC Rack Charger Front



SBRC Rack Charger Back



SB900A Lithium-Ion Rechargeable Battery

Specifications

Nominal Capacity	1450 mAh
Nominal Voltage	3.7 V
Dimensions	7 mm \times 34 mm \times 50 mm (.28 in. \times 1.34 in. \times 1.97 in.), H \times W \times D
Weight	40 g (1.41 oz.)
Housing	Engineered Thermoplastic Resin
Charging Temperature Range	0 °C (32 °F) to 45 °C (113 °F)
Discharging Temperature Range	−18 °C (0 °F) to 60 °C (140 °F)
Recommended Storage Temperature Range	10 °C (50 °F) to 25 °C (77 °F)



SB900A Rechargeable Lithium-Ion Battery

SB910 Lithium-Ion Rechargeable Battery

Specifications

Nominal Capacity	2200 mAh
Nominal Voltage	3.6 V
Dimensions	13.9 mm × 39.4 mm × 53.3 mm (.54 in. × 1.55 in. × 2.10 in.), H × W × D
Weight	48 g (1.69 oz.)
Housing	Engineered Thermoplastic Resin
Charging Temperature Range	0 °C (32 °F) to 60 °C (140 °F)
Discharging Temperature Range	−18 °C (0 °F) to 60 °C (140 °F)
Recommended Storage Temperature Range	10 °C (50 °F) to 25 °C (77 °F)



\$B910 Rechargeable Lithium-Ion Battery

SB910M Lithium-Ion Rechargeable Battery

Specifications

Nominal Capacity	1150 mAh	
Nominal Voltage	3.7 V	
Dimensions	8.8 mm × 38.8 mm × 54.1 mm (.35 in. × 1.53 in. × 2.13 in.), H × W × D	
Weight	31 g (1.09 oz.)	
Housing	Engineered Thermoplastic Resin	
Charging Temperature Range	0 °C (32 °F) to 60 °C (140 °F)	
Discharging Temperature Range	−18 °C (0 °F) to 60 °C (140 °F)	
Recommended Storage Temperature Range	10 °C (50 °F) to 25 °C (77 °F)	

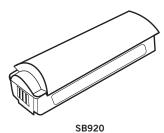


SB910M Rechargeable Lithium-Ion Battery

SB920 Lithium-Ion Rechargeable Battery

Specifications

2500 mAh
3.6 V
20.8 mm × 23.7 mm × 72.8 mm (.83 in. × .93 in. × 2.87 in.), H × W × D
54 g (1.90 oz.)
Engineered Thermoplastic Resin
0 °C (32 °F) to 60 °C (140 °F)
−18 °C (0 °F) to 60 °C (140 °F)
10 °C (50 °F) to 25 °C (77 °F)



Rechargeable Lithium-Ion Battery

