

AXIENT DIGITAL WIRELESS 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 & SCALABILITY

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.

SHURE

AXIENT DIGITAL WIRELESS SYSTEMS

SYSTEM SPECIFICATIONS (SUBJECT TO CHANGE)

RF

RF Carrier Frequency Range	470-960 MHz <i>Varies by Region. See Frequency Range and Output Power Table.</i>
Working Range	100 m (330 ft) <i>Note: Actual range depends on RF signal absorption, reflection and interference.</i>
RF Tuning Step Size	25 kHz <i>Varies by region.</i>
Image Rejection	>70 dB <i>typical</i>
RF Sensitivity	-98 dBm at 10 ⁻⁵ BER

AUDIO

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) ADX1: 20 Hz-20 kHz (+1 dB) ADX1M: 20 Hz-20 kHz (+1 dB) ADX2/ADX2FD: 20 Hz-20 kHz (+1 dB) <i>Note: dependent on microphone type</i>
Audio Dynamic Range <i>A-weighted, typical, System Gain @ +10</i>	XLR Analog Output: 120 dB (A-weighted); 117 dB (unweighted) Dante Digital Output: 130 dB (A-weighted); 126 dB (unweighted)
Total Harmonic Distortion <i>-6 dBFS input, 1 kHz, System Gain @ +10</i>	<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.

TEMPERATURE RANGE Note: Battery characteristics may limit this range.

Operating Temperature Range	0 to 122 °F (-18 °C to 50 °C)
Storage Temperature Range	-20 to 149 °F (-29°C to 65°C)

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.

OPTIONAL ACCESSORIES (SEE SHURE.COM FOR MORE)

Battery Chargers

SBRC	Rack-Mounted Networked Battery Charger
SBC-AX	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
SBC10-100	USB Battery Dock Charger for SB900A
SBC210	Two-Bay Desktop Battery Charger for SB900A
SBC800	Eight-Up Battery Charger for SB900A
SBC840M	Eight-Bay Networked Battery Charger for SB910M Batteries

Docking Chargers

SBC200	Two-Bay Docking Charger for AD1 & AD2 Transmitters and SB900A Batteries
SBC220	Two-Bay Networked Docking Charger for AD1 & AD2 Transmitters and SB900A Batteries
SBC240	Two-Bay Networked Docking Charger for ADX1, ADX2 & ADX2FD Transmitters and SB910 & SB920 Batteries
SBC840	Eight-Bay Networked Docking Charger for ADX1, ADX2 & ADX2FD Transmitters and SB910 & SB920 Batteries

Handheld Systems

WA617M	Radome Color ID Kit for AD2 Handheld Transmitters
WA619-A	Radome Color ID Kit for ADX Handheld Transmitters (470-636 MHz)
WA619-B	Radome Color ID Kit for ADX Handheld Transmitters (606-810 MHz)
WA619-C	Radome Color ID Kit for ADX Handheld Transmitters (750-960 MHz)
AD651B	Talk Switch Button (black)
WA371	Microphone Stand Adapter
WA653	Mic Flag Extender Kit

FURNISHED ACCESSORIES

RECEIVERS

90XN1371	Hardware Kit
95A8994	BNC Bulkhead Adapter
Var. By Region	1/2 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

BODYPACK TRANSMITTERS

90B8201	AA Alkaline Batteries (2)
Var. By Region	1/4 Wave Antenna
WA340	Threaded TA4F Adapter
WA610	Transmitter Carrying Case
29A13	Zipper Bag
44A12547	Belt Clip

HANDHELD TRANSMITTERS

95B2313	Zipper bag
31B1856	Euro-threaded adapter
90F4046	Swivel Adapter (black)
89B8201	AA Alkaline Batteries (2)

ADX1M DIGITAL WIRELESS SHOWLINK®-ENABLED MICRO BODYPACK TRANSMITTER

SPECIFICATIONS

(SUBJECT TO CHANGE)

Gain Offset Range	-12 to 21 dB (in 1 dB steps)
Battery Type	Shure SB910M Rechargeable Li-Ion
Battery Run Time @10 mW	up to 7 hours
Dimensions (H × W × D)	2.4 × 2.7 × 0.7 in (60.4 × 68.0 × 18.0 mm)
Weight	1.9 oz (53 g) without battery
Housing	Ultem® (PEI)

AUDIO INPUT

Connector	LEMO3 Connector
Configuration	Unbalanced
Impedance	8.2 MΩ
Maximum Input Level 1 kHz at 1% THD	Pad Off: 8.5 dBV (7.5 Vpp) Pad Off: 20.5 dBV (30 Vpp)
Preamplifier Equivalent Input Noise (EIN) System Gain Setting >20	-120 dBV A-weighted, typical

RF OUTPUT

Antenna Type	Integrated Helical
Impedance	50 Ω
Occupied Bandwidth	<200 kHz
Modulation Type	Shure Axient Digital Proprietary
Power	2 mW, 10 mW, 20 mW Varies by region. See Frequency Range and Output Power Table.
Specific Absorption Rate (SAR)	<0.24 W/kg

AVAILABLE MODELS

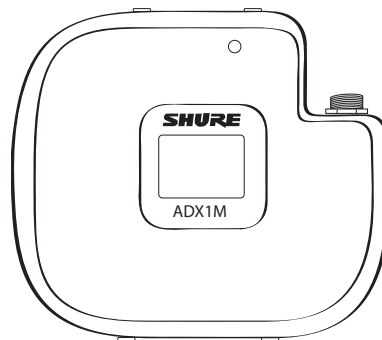
ADX1M	Axient Digital Showlink®-Enabled Micro Bodypack Transmitter, LEMO3 Connector
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OVERVIEW

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 rechargeability. 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 × 60mm × 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



ADX1M
Micro Bodypack Transmitter

AVAILABLE FREQUENCY BANDS

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

ADX1 DIGITAL WIRELESS SHOWLINK®-ENABLED BODYPACK TRANSMITTER

SPECIFICATIONS

(SUBJECT TO CHANGE)

Gain Offset Range	-12 to 21 dB (in 1 dB steps)
Battery Type	SB910 Rechargeable Lithium-Ion
Battery Run Time @10 mW	up to 10 hours
Dimensions (H × W × D)	3.6 × 2.7 × 0.8 in (91 × 68 × 19 mm)
Weight	5.0 oz (142 g) without batteries
Housing	Aluminum

AUDIO INPUT

Connector	4-Pin male mini connector (TA4M) LEMO3 Connector
Configuration	Unbalanced
Impedance	TA4M: 1 mΩ LEMO3: 8.2 MΩ
Maximum Input Level 1 kHz at 1% THD	Pad Off: 8.5 dBV (7.5 Vpp) Pad Off: 20.5 dBV (30 Vpp)
Preamplifier Equivalent Input Noise (EIN) System Gain Setting >20	-120 dBV A-weighted, typical

RF OUTPUT

Connector	SMA
Antenna Type	UHF 1/4 Wave
Impedance	50 Ω
Occupied Bandwidth	<200 kHz
Modulation Type	Shure Axient Digital Proprietary
Power	2 mW, 10 mW, 20 mW, 40 mW Varies by region. See Frequency Range and Output Power Table.
Specific Absorption Rate (SAR)	<0.20 W/kg

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

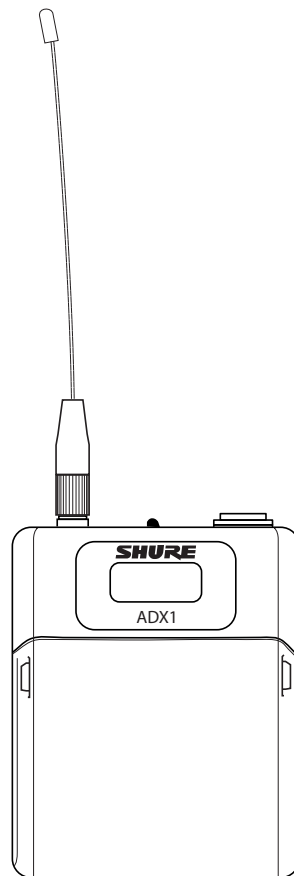
ADX1-TQG	Axient Digital Showlink®-Enabled Bodypack Transmitter, TA4M Connector
AD1-LEMO3	Axient Digital Showlink®-Enabled Bodypack Transmitter, LEMO3 Connector

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



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
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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

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