

# 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<sup>®</sup> remote control, Wireless Workbench<sup>®</sup>, the ShurePlus<sup>™</sup> 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**

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## SYSTEM SPECIFICATIONS (SUBJECT TO CHANGE)

### RF

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

### AUDIO

<b>Latency</b>	Standard mode: 2.0 ms High Density mode: 2.9 ms
<b>Audio Frequency Response</b>	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>
<b>Audio Dynamic Range</b> <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)
<b>Total Harmonic Distortion</b> <i>-6 dBFS input, 1 kHz, System Gain @ +10</i>	<0.01%
<b>System Audio Polarity</b>	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.

<b>Operating Temperature Range</b>	0 to 122 °F (-18 °C to 50 °C)
<b>Storage Temperature Range</b>	-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		Docking Chargers		Handheld Systems	
<b>SBRC</b>	Rack-Mounted Networked Battery Charger	<b>SBC200</b>	Two-Bay Docking Charger for AD1 & AD2 Transmitters and SB900A Batteries	<b>WA617M</b>	Radome Color ID Kit for AD2 Handheld Transmitters
<b>SBC-AX</b>	SBRC Battery Charging Module for SB900A Batteries	<b>SBC220</b>	Two-Bay Networked Docking Charger for AD1 & AD2 Transmitters and SB900A Batteries	<b>WA619-A</b>	Radome Color ID Kit for ADX Handheld Transmitters (470-636 MHz)
<b>SBM910</b>	SBRC Battery Charging Module for SB910 Batteries	<b>SBC240</b>	Two-Bay Networked Docking Charger for ADX1, ADX2 & ADX2FD Transmitters and SB910 & SB920 Batteries	<b>WA619-B</b>	Radome Color ID Kit for ADX Handheld Transmitters (606-810 MHz)
<b>SBM910M</b>	SBRC Battery Charging Module for SB910M Batteries	<b>SBC840</b>	Eight-Bay Networked Docking Charger for ADX1, ADX2 & ADX2FD Transmitters and SB910 & SB920 Batteries	<b>WA619-C</b>	Radome Color ID Kit for ADX Handheld Transmitters (750-960 MHz)
<b>SBM920</b>	SBRC Battery Charging Module for SB920 Batteries			<b>AD651B</b>	Talk Switch Button (black)
<b>SBC10-100</b>	USB Battery Dock Charger for SB900A			<b>WA371</b>	Microphone Stand Adapter
<b>SBC210</b>	Two-Bay Desktop Battery Charger for SB900A			<b>WA653</b>	Mic Flag Extender Kit
<b>SBC800</b>	Eight-Up Battery Charger for SB900A				
<b>SBC840M</b>	Eight-Bay Networked Battery Charger for SB910M Batteries				

## FURNISHED ACCESSORIES

### RECEIVERS

<b>90XN1371</b>	Hardware Kit
<b>95A8994</b>	BNC Bulkhead Adapter
<b>Var. By Region</b>	1/2 Wave Receiver Antenna (2)
<b>95B9023</b>	BNC-BNC Cable (short)
<b>95C9023</b>	BNC-BNC Cable (long)
<b>95N2035</b>	Coaxial RF Cascade Cable
<b>Var. By Region</b>	AC Power Cable, VLock
<b>Var. By Region</b>	AC Power Jumper Cable
<b>95A33402</b>	Ethernet Cable, 3 ft.
<b>95B33402</b>	Ethernet Jumper Cable

### BODYPACK TRANSMITTERS

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

### HANDHELD TRANSMITTERS

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



# AXIENT DIGITAL WIRELESS RECHARGEABLE POWER MANAGEMENT

## SPECIFICATIONS

(SUBJECT TO CHANGE)

### SB903 LI-ION RECHARGEABLE BATTERY

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

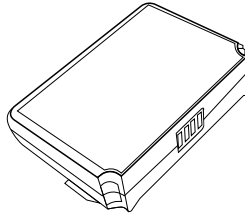


### SB900A RECHARGEABLE LITHIUM-ION BATTERY

Compatible with AD1, AD2 and AD3 transmitters.

### SB910 LI-ION RECHARGEABLE BATTERY

Nominal Capacity	2200 mAh
Nominal Voltage	3.6 V
Dimensions (H × W × D)	.54 × 1.55 × 2.10 in. (13.9 × 39.4 × 53.3 mm)
Weight	1.69 oz (48 g)
Housing	Engineered Thermoplastic Resin
Charging Temperature Range	32 to 113 °F (0 to 45 °C)
Discharging Temperature Range	0 to 140 °F (-18 to 60 °C)
Recommended Storage Temperature Range	50 to 77 °F (10 to 25 °C)

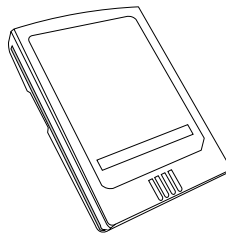


### SB910 RECHARGEABLE LITHIUM-ION BATTERY

Compatible with ADX1 bodypack transmitters.

### SB910M LI-ION RECHARGEABLE BATTERY

Nominal Capacity	1450 mAh
Nominal Voltage	3.7 V
Dimensions (H × W × D)	.35 × 1.53 × 2.13 in. (8.8 × 38.8 × 54.1 mm)
Weight	1.09 oz (31 g)
Housing	Engineered Thermoplastic Resin
Charging Temperature Range	32 to 140 °F (0 to 60 °C)
Discharging Temperature Range	0 to 140 °F (-18 to 60 °C)
Recommended Storage Temperature Range	50 to 77 °F (10 to 25 °C)

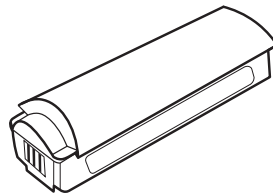


### SB910M RECHARGEABLE LITHIUM-ION BATTERY

Compatible with the ADX1M Micro Bodypack transmitter

### SB920 LI-ION RECHARGEABLE BATTERY

Nominal Capacity	2500 mAh
Nominal Voltage	3.6 V
Dimensions (H × W × D)	.83 × .93 × 2.87 in. (20.8 × 23.7 × 72.8 mm)
Weight	1.90 oz (54 g)
Housing	Engineered Thermoplastic Resin
Charging Temperature Range	32 to 140 °F (0 to 60 °C)
Discharging Temperature Range	0 to 140 °F (-18 to 60 °C)
Recommended Storage Temperature Range	50 to 77 °F (10 to 25 °C)



### SB920 RECHARGEABLE LITHIUM-ION BATTERY

Compatible with ADX2 and ADX2FD Handheld Digital Wireless Transmitters