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.
System Specifications

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>Capacity</th>
<th>Runtime</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB900A</td>
<td>Alkaline</td>
<td>up to 9 hours</td>
</tr>
<tr>
<td>SB910M</td>
<td>NiMH</td>
<td>up to 11 hours</td>
</tr>
<tr>
<td>SB920</td>
<td>Li-primary</td>
<td>up to 7 hours</td>
</tr>
</tbody>
</table>

Battery Runtimes (Note: Frequency Band Dependent)

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 SB910A, AXT910 and AXT920, all in a single rack-unit space. Wireless Workbench networkability and ShurePlus Channels compatibility 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.

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.

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.

Furnished Accessories

Receivers
99A1371 Hardware Kit
95A8994 BNC Bulkhead Adapter
95B9023 BNC-BNC Cable (short)
95C9023 BNC-BNC Cable (long)
95D2035 coaxial RF Cascade Cable
95E4090 AC Power Cable, Y-Plug
95F4090 AC Power Jumper Cable
95A33402 Ethernet Cable, 3 ft.
95B33402 Ethernet Jumper Cable

Handheld Systems
95B2313 Zipper Bag
31B1856 Euro-threaded Adapter
95D4096 Swivel Adapter, black
80B8201 AA Alkaline Batteries (2)

Bodypack Systems
80B8001 AA Alkaline Batteries (2)
Var. by region ¼ 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
SB900M SBRC Battery Charging Module for SB900A Batteries
SB910M SBRC Battery Charging Module for SB910 Batteries
SB910M SBRC Battery Charging Module for SB910M Batteries
SB920 SBRC Battery Charging Module for SB920 Batteries
SB920-4 2-Bay Networked Docking Charger for ADX1, ADX2 & ADX2FD Transmitters, SB910 & SB920 Batteries
SB920-8 8-Bay Networked Docking Charger for ADX1, ADX2 & ADX2FD Transmitters, SB910 & SB920 Batteries
SB920-8M 8-Bay Networked Docking Charger for SB910M Batteries

Handheld Systems
WA619-A Radios 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

Updated: 08/18

Whilst every effort has been made to ensure that the information in this document is correct, we accept no liability in respect of errors or omissions. All specifications within this document are subject to change without notice.
Component Specifications

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 184 MHz
- 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
- Optional DC module available to support redundant power

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

Moulding: Steel, Extruded aluminum

Power Requirements: 150 to 240 V AC, 50–60 Hz, 0.68 A max.

Thermal Dissipation: Maximum: 31 W (106 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)

Impedance: 1/4", 100 Ω

Full Scale Output: 1/4" (6.35 mm): +8 dBV

Mic/Line Switch: 30 dB pad

phantom Power Protection: Yes

Network

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

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

© 2018 Shure Incorporated
Component Specifications

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 Workbench® and ShurePlus™ Channels app
- Front panel headphone jack enables Dante Cue and Dante Browse monitoring
- Configurable Ethernet switch for redundant Dante digital output
- AES3 output
- Channel Quality meter displays RF signal-to-noise
- Locking AC connectors

Specifications

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>44 mm x 483 mm x 333 mm (1.7 in. x 19.0 in. x 13.1 in.), H x W x D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>4.6 kg (10.1 lbs), without antennas</td>
</tr>
<tr>
<td>Housing</td>
<td>Steel; Extruded aluminum</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>100 to 240 V AC, 50–60 Hz; 0.26 A max.</td>
</tr>
<tr>
<td>Thermal Dissipation</td>
<td>Maximum: 23 W (78 BTU/hr); Idle: 15 W (52 BTU/hr)</td>
</tr>
<tr>
<td>Audio Output</td>
<td>Gain Adjustment Range: ~18 to +42 dB in 1 dB steps (plus Mute setting)</td>
</tr>
<tr>
<td>Configuration</td>
<td>1/4&quot; (6.35 mm): Transformer-coupled Balanced (Tip=audio, Ring=no audio, Sleeve=ground)</td>
</tr>
<tr>
<td>Impedance</td>
<td>XLR: Transformer-coupled Balanced (1=ground, 2=audio +, 3=audio -)</td>
</tr>
<tr>
<td>Full Scale Output</td>
<td>1/4&quot;: 48 dB; XLR: LINE setting= +18 dBV, MIC setting= –12 dBV</td>
</tr>
<tr>
<td>Mic/Line Switch</td>
<td>30 dB pad</td>
</tr>
<tr>
<td>Phantom Power Protection</td>
<td>Yes</td>
</tr>
<tr>
<td>Networking</td>
<td>Network Interface: 10/100 Mbps, 1 Gbps, Dante Digital Audio</td>
</tr>
<tr>
<td></td>
<td>Network Addressing Capability: DHCP or Manual IP address</td>
</tr>
<tr>
<td></td>
<td>Maximum Ethernet Cable Length: 100 m (328 ft)</td>
</tr>
<tr>
<td>Cascade output</td>
<td>Connector Type: BNC; Note: For connection of one additional receiver in the same band</td>
</tr>
<tr>
<td>Impedance</td>
<td>Unbalanced, passive</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>0 dB, typical</td>
</tr>
<tr>
<td>RF Input</td>
<td>Spurious Rejection: &gt;80 dB, typical</td>
</tr>
<tr>
<td>Connector Type</td>
<td>BNC</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Bias Voltage</td>
<td>12–13.5 V DC, 150 mA maximum, per antenna, switchable on/off</td>
</tr>
<tr>
<td>RF Carrier Frequency Range</td>
<td>AD4D=A: 470–636 MHz</td>
</tr>
<tr>
<td></td>
<td>AD4D=B: 606–810 MHz</td>
</tr>
<tr>
<td></td>
<td>AD4D=C: 750–960 MHz</td>
</tr>
</tbody>
</table>

Updated: 08/18
Whilst every effort has been made to ensure that the information in this document is correct, we accept no liability in respect of errors or omissions. All specifications within this document are subject to change without notice.
© 2018 Shure Incorporated
# 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™ 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
- 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

#### Protection Modes
Overvoltage, Undervoltage, Reverse Polarity

#### Audio Output
- Gain Adjustment Range: –18 to +42 dB in 1 dB steps (plus Mute setting)
- Configuration: 1/4": Transformer-coupled Balanced (Tip=audio, Ring=no audio, Sleeve=ground)
- XLR: Transformer-coupled Balanced (1=ground, 2=audio +, 3=audio –)
- Impedance: 1000
- Full Scale Output: 1/4": -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
- 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

### Diagrams
- AD4Q-DC Quad-Channel Receiver
  - Front Panel
  - Rear Panel

---

**www.shure.com**

Updated: 08/18

Whilst every effort has been made to ensure that the information in this document is correct, we accept no liability in respect of errors or omissions. All specifications within this document are subject to change without notice.

© 2018 Shure Incorporated
Component Specifications

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 + and Dante® 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
- AES3 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)
DC Input Voltage Range: 10.9–14.8 V DC
Maximum 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)
Impedance: 1000
Microphone 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
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-DC
AD4D-DC Dual-Channel Receiver Front Panel
AD4D-DC
Dual-Channel Receiver Rear Panel

Updated: 08/18

WHilst every effort has been made to ensure that the information in this document is correct, we accept no liability in respect of errors or omissions. All specifications within this document are subject to change without notice.
© 2018 Shure Incorporated
Component Specifications

**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-Ion or LR6 AA batteries 1.5 V

### Battery Runtime
- 9 hours at 10 mW
- Up to 9 hours for Shure SB900A
- Up to 8 hours for alkaline batteries

### 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: 4-Pin male mini connector (TA4M)
- LEMO3 connector
- Configuration: Unbalanced
- Impedance: TA4M, 1 MΩ
- LEMO3, 8.2 MΩ
- Maximum Input Level: Pad Off: 8.5 dBV (7.5 Vpp)
- Pad On: 20.5 dBV (30 Vpp)
- Preamplifier Equivalent Input Noise (EIN): System Gain Setting ≥ +20 dB

### RF Output
- Connector: SMA
- Impedance: 50 Ω
- Occupied Bandwidth: <200 kHz
- Modulation Type: Shure Axient Digital Proprietary
- Power: 2 mW, 10 mW, 35 mW

### Available Models
- **AD1**
  - Axient Digital Bodypack, TQG (TA4F) Connector
- **AD1LEMO3**
  - Axient Digital Bodypack, LEMO3 Connector

### Available Frequency Bands

<table>
<thead>
<tr>
<th>Band</th>
<th>Range (MHz)</th>
<th>Transmitter Output (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G53</td>
<td>470 to 510</td>
<td>2/10/35</td>
</tr>
<tr>
<td>G54</td>
<td>479 to 555</td>
<td>2/10/20</td>
</tr>
<tr>
<td>G55</td>
<td>470 to 636*</td>
<td>2/10/35</td>
</tr>
<tr>
<td>G56</td>
<td>470 to 636</td>
<td>2/10/35</td>
</tr>
<tr>
<td>G57</td>
<td>470 to 616*</td>
<td>2/10/35</td>
</tr>
<tr>
<td>G58</td>
<td>510 to 530</td>
<td>2/10/35</td>
</tr>
<tr>
<td>H54</td>
<td>520 to 636</td>
<td>2/10/35</td>
</tr>
<tr>
<td>K53</td>
<td>606 to 698*</td>
<td>2/10/35</td>
</tr>
<tr>
<td>K54</td>
<td>606 to 653**</td>
<td>2/10/35</td>
</tr>
<tr>
<td>K55</td>
<td>606 to 694</td>
<td>2/10/35</td>
</tr>
<tr>
<td>K56</td>
<td>606 to 714</td>
<td>2/10/35</td>
</tr>
<tr>
<td>K57</td>
<td>606 to 790</td>
<td>2/10/35</td>
</tr>
<tr>
<td>K58</td>
<td>622 to 698</td>
<td>2/10/35</td>
</tr>
<tr>
<td>L54</td>
<td>630 to 787</td>
<td>2/10/35</td>
</tr>
<tr>
<td>R52</td>
<td>794 to 806</td>
<td>2/10/35</td>
</tr>
<tr>
<td>JB</td>
<td>806 to 810</td>
<td>2/10/35</td>
</tr>
<tr>
<td>X51</td>
<td>925 to 937.5</td>
<td>2/10/35</td>
</tr>
<tr>
<td>X55</td>
<td>941 to 960</td>
<td>2/10/35</td>
</tr>
</tbody>
</table>

*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**
Component Specifications

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-Ion 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: 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 Output Power table, varies by region

Available Models
AD2 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/K9M...with KSM9 Flat 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

Available Frequency Bands

<table>
<thead>
<tr>
<th>Band</th>
<th>Range (MHz)</th>
<th>Transmitter Output (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G53</td>
<td>470 to 510</td>
<td>2/10/35</td>
</tr>
<tr>
<td>G54</td>
<td>479 to 565</td>
<td>2/10/30</td>
</tr>
<tr>
<td>G55</td>
<td>470 to 636*</td>
<td>2/10/35</td>
</tr>
<tr>
<td>G56</td>
<td>470 to 636</td>
<td>2/10/35</td>
</tr>
<tr>
<td>G57</td>
<td>470 to 616*</td>
<td>2/10/35</td>
</tr>
<tr>
<td>G58</td>
<td>510 to 530</td>
<td>2/10/35</td>
</tr>
<tr>
<td>H54</td>
<td>520 to 636</td>
<td>2/10/35</td>
</tr>
<tr>
<td>K53</td>
<td>606 to 698*</td>
<td>2/10/35</td>
</tr>
<tr>
<td>K54</td>
<td>606 to 663**</td>
<td>2/10/35</td>
</tr>
<tr>
<td>K55</td>
<td>606 to 694</td>
<td>2/10/35</td>
</tr>
<tr>
<td>K56</td>
<td>606 to 714</td>
<td>2/10/35</td>
</tr>
<tr>
<td>K57</td>
<td>606 to 790</td>
<td>2/10/35</td>
</tr>
<tr>
<td>K58</td>
<td>622 to 698</td>
<td>2/10/35</td>
</tr>
<tr>
<td>L54</td>
<td>630 to 787</td>
<td>2/10/35</td>
</tr>
<tr>
<td>R52</td>
<td>794 to 806</td>
<td>2/10/35</td>
</tr>
<tr>
<td>JB</td>
<td>806 to 810</td>
<td>2/10/35</td>
</tr>
<tr>
<td>X51</td>
<td>925 to 937.5</td>
<td>2/10/35</td>
</tr>
<tr>
<td>X55</td>
<td>941 to 960</td>
<td>2/10/35</td>
</tr>
</tbody>
</table>

Note: Not all frequencies available in all regions. Contact your authorized Shure dealer for availability.
* with a gap between 616 to 624 MHz
** with a gap between 608 to 614 MHz and a gap between 616 to 634 MHz
Component Specifications

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 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

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain Offset Range</td>
<td>–12 to 21 dB (in 1 dB steps)</td>
</tr>
<tr>
<td>Battery Type</td>
<td>Shure SB910M Rechargeable Li-Ion</td>
</tr>
<tr>
<td>Battery Runtime</td>
<td>SB910M: up to 7 hours</td>
</tr>
<tr>
<td>Dimensions</td>
<td>60.4 mm × 68.0 mm × 22.1 mm (2.4 in. × 2.7 in. × 0.9 in.) H × W × D</td>
</tr>
<tr>
<td>Weight</td>
<td>Weight 53 g (1.9 oz.), without battery</td>
</tr>
<tr>
<td>Housing</td>
<td>Ultem® (PEI)</td>
</tr>
<tr>
<td>Audio Input</td>
<td>LEMO3 connector</td>
</tr>
<tr>
<td>Configuration</td>
<td>Unbalanced</td>
</tr>
<tr>
<td>Impedance</td>
<td>8.2 MΩ</td>
</tr>
<tr>
<td>Maximum Input Level</td>
<td>Pad Off: 8.5 dBV (7.5 Vpp)</td>
</tr>
<tr>
<td></td>
<td>Pad On: 20.5 dBV (30 Vpp)</td>
</tr>
<tr>
<td>Preamplifier Equivalent Input Noise (EIN)</td>
<td>–120 dBV, A-weighted, typical</td>
</tr>
<tr>
<td>RF Output</td>
<td>Shure Axient Digital Proprietary</td>
</tr>
<tr>
<td>Antenna Type</td>
<td>Integrated Helical</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Occupied Bandwidth</td>
<td>&lt;200 kHz</td>
</tr>
<tr>
<td>modulation Type</td>
<td>Shure Axient Digital Proprietary</td>
</tr>
<tr>
<td>Power</td>
<td>2 mW, 10 mW, 20 mW</td>
</tr>
<tr>
<td>*Varies by Region, see Available Frequency Bands and Output Power table.</td>
<td></td>
</tr>
<tr>
<td>ShowLink®</td>
<td>IEEE 802.15.4</td>
</tr>
<tr>
<td>Network Type</td>
<td>ZigBee Dual Conformal</td>
</tr>
<tr>
<td>Antenna Type</td>
<td>2.40 to 2.485 GHz (24 Channels)</td>
</tr>
<tr>
<td>RF Output Power</td>
<td>10 dBm (ERP)</td>
</tr>
<tr>
<td>Available Models</td>
<td>ADX1M, Axient Digital Micro Bodypack Transmitter, LEMO3 Connector</td>
</tr>
</tbody>
</table>

Available Frequency Bands

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

*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 633 MHz

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

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
- 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  -12 to 21 dB (in 1 dB steps)
Battery Type  Shure SB910 Rechargeable Li-Ion
Battery Runtime  @ 10 mW SB910: up to 10 hours
Dimensions  91 mm x 68 mm x 19 mm (3.6 in. x 2.7 in. x 0.8 in.) H x W x D
Weight  142g (5.0 oz.), without battery
Housing  Aluminum

Audio Input

Connector  4-pin Male Mini TQG (TA4M) Connector
Configuration  Unbalanced
Impedance  50 Ω
Occupied Bandwidth  <200 kHz
Modulation Type  Shure Axient Digital Proprietary
Power  2 mW, 10 mW, 20 mW, 40mW

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  vary by region; see Available Frequency Bands and Output Power table

Available Models

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

Available Frequency Bands

<table>
<thead>
<tr>
<th>Band</th>
<th>Range (MHz)</th>
<th>Transmitter Output (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G53</td>
<td>470 to 510</td>
<td>2/10/40</td>
</tr>
<tr>
<td>G54</td>
<td>479 to 565</td>
<td>2/10/20</td>
</tr>
<tr>
<td>G55</td>
<td>470 to 636*</td>
<td>2/10/40</td>
</tr>
<tr>
<td>G56</td>
<td>470 to 636</td>
<td>2/10/40</td>
</tr>
<tr>
<td>G57</td>
<td>470 to 616*</td>
<td>2/10/40</td>
</tr>
<tr>
<td>G62</td>
<td>510 to 530</td>
<td>2/10/40</td>
</tr>
<tr>
<td>H54</td>
<td>520 to 636</td>
<td>2/10/40</td>
</tr>
<tr>
<td>K53</td>
<td>606 to 698*</td>
<td>2/10/40</td>
</tr>
<tr>
<td>K54</td>
<td>606 to 666**</td>
<td>2/10/40</td>
</tr>
<tr>
<td>K55</td>
<td>606 to 694</td>
<td>2/10/40</td>
</tr>
<tr>
<td>K56</td>
<td>606 to 714</td>
<td>2/10/40</td>
</tr>
<tr>
<td>K57</td>
<td>606 to 790</td>
<td>2/10/40</td>
</tr>
<tr>
<td>K58</td>
<td>622 to 698</td>
<td>2/10/40</td>
</tr>
<tr>
<td>L54</td>
<td>630 to 787</td>
<td>2/10/40</td>
</tr>
<tr>
<td>RS2</td>
<td>794 to 806</td>
<td>2/10/40</td>
</tr>
<tr>
<td>JB</td>
<td>806 to 810</td>
<td>2/10/40</td>
</tr>
<tr>
<td>X51</td>
<td>925 to 937.5</td>
<td>2/10/40</td>
</tr>
<tr>
<td>X55</td>
<td>941 to 960</td>
<td>2/10/40</td>
</tr>
</tbody>
</table>

Notes: 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 626 to 634 MHz

www.shure.com  © 2018 Shure Incorporated

Whilst every effort has been made to ensure that the information in this document is correct, we accept no liability in respect of errors or omissions. All specifications within this document are subject to change without notice.
Component Specifications

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 x 51 mm (10.0 in. x 2.0 in.) L x Dia.

Weight
179 g (6.3 oz.), without battery

Housing
Cast Aluminum

Audio Input
Configuration
Unbalanced

Maximum Input Level
-20 dBu 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, 40 mW
Varies by Region; See Available Frequency Bands and Output 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, See Available Frequency Bands and Output Power table.

Available Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADX2</td>
<td>Axient Digital ShowLink®-Enabled Handheld Transmitter</td>
</tr>
<tr>
<td>ADX2/B58A</td>
<td>with Beta® 58A Supercardioid Dynamic Vocal Wireless Microphone Capsule</td>
</tr>
<tr>
<td>ADX2/B7A</td>
<td>with Beta 7A Supercardioid Condenser Vocal Wireless Microphone Capsule</td>
</tr>
<tr>
<td>ADX2/B9N</td>
<td>with Beta 9N Cardioid Condenser Vocal Wireless Microphone Capsule</td>
</tr>
<tr>
<td>ADX2/K8N</td>
<td>with KSM8 Dualdyne™ Cardioid Dynamic Wireless Microphone Capsule (Nickel)</td>
</tr>
<tr>
<td>ADX2/K8B</td>
<td>with KSM8 Dualdyne™ Cardioid Dynamic Wireless Microphone Capsule (Black)</td>
</tr>
<tr>
<td>ADX2/K9N</td>
<td>with KSM9 Dual-Pattern Condenser Wireless Microphone Capsule (Black)</td>
</tr>
<tr>
<td>ADX2/K9SN</td>
<td>with KSM9/HS Multi-Pattern Dual Diaphragm Condenser Wireless Microphone Capsule (Black)</td>
</tr>
<tr>
<td>ADX2/K9B</td>
<td>with KSM9/HS Multi-Pattern Dual Diaphragm Condenser Wireless Microphone Capsule (Nickel)</td>
</tr>
<tr>
<td>ADX2/G58</td>
<td>with VP188 Omnidirectional Condenser Wireless Microphone Capsule</td>
</tr>
<tr>
<td>ADX2/GP6</td>
<td>with VP68 Omnidirectional Condenser Wireless Microphone Capsule</td>
</tr>
</tbody>
</table>

Available Frequency Bands

<table>
<thead>
<tr>
<th>Band</th>
<th>Range (MHz)</th>
<th>Transmitter Output (mW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G53</td>
<td>470 to 510</td>
<td>2/10/40</td>
</tr>
<tr>
<td>G54</td>
<td>479 to 565</td>
<td>2/10/20</td>
</tr>
<tr>
<td>G55</td>
<td>470 to 636*</td>
<td>2/10/40</td>
</tr>
<tr>
<td>G56</td>
<td>470 to 636</td>
<td>2/10/40</td>
</tr>
<tr>
<td>G57</td>
<td>470 to 636*</td>
<td>2/10/40</td>
</tr>
<tr>
<td>G62</td>
<td>510 to 530</td>
<td>2/10/40</td>
</tr>
<tr>
<td>H54</td>
<td>520 to 516</td>
<td>2/10/40</td>
</tr>
<tr>
<td>K53</td>
<td>606 to 698*</td>
<td>2/10/40</td>
</tr>
<tr>
<td>K54</td>
<td>606 to 698*</td>
<td>2/10/40</td>
</tr>
<tr>
<td>K55</td>
<td>606 to 714</td>
<td>2/10/40</td>
</tr>
<tr>
<td>K56</td>
<td>606 to 790</td>
<td>2/10/40</td>
</tr>
<tr>
<td>K57</td>
<td>620 to 698</td>
<td>2/10/40</td>
</tr>
<tr>
<td>K58</td>
<td>630 to 787</td>
<td>2/10/40</td>
</tr>
<tr>
<td>L54</td>
<td>794 to 806</td>
<td>2/10/40</td>
</tr>
<tr>
<td>JB</td>
<td>806 to 810</td>
<td>2/10/40</td>
</tr>
<tr>
<td>X51</td>
<td>925 to 937.5</td>
<td>2/10/40</td>
</tr>
<tr>
<td>X55</td>
<td>941 to 960</td>
<td>2/10/40</td>
</tr>
</tbody>
</table>

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

Updated: 08/18

www.shure.com

Whilst every effort has been made to ensure that the information in this document is correct, we accept no liability in respect of errors or omissions. All specifications within this document are subject to change without notice.

© 2018 Shure Incorporated
Component Specifications

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-Ion

Battery Runtime
@ 10 mW
- Single Carrier Mode: Up to 9 hours
- Frequency Diversity: Up to 6.5 hours

Weight
179 g (6.3 oz.), without battery

Housing
Cast Aluminum

Audio Input
Configuration
Unbalanced

Maximum Input Level
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 Output 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

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADX2FD</td>
<td>Axient Digital ShowLink®-Enabled Frequency Diversity Handheld Transmitter</td>
</tr>
<tr>
<td>ADX2FD/B58A</td>
<td>with Beta® 58A Supercardioid Dynamic Vocal Wireless Microphone Capsule</td>
</tr>
<tr>
<td>ADX2FD/B7A</td>
<td>with Beta 87A Supercardioid Condenser Vocal Wireless Microphone Capsule</td>
</tr>
<tr>
<td>ADX2FD/B7C</td>
<td>with Beta 87C Cardioid Condenser Vocal Wireless Microphone Capsule</td>
</tr>
<tr>
<td>ADX2FD/K8N</td>
<td>with KSM8 Dualdyne™ Cardioid Dynamic Wireless Microphone Capsule (Nickel)</td>
</tr>
<tr>
<td>ADX2FD/K8B</td>
<td>with KSM8 Dualdyne™ Cardioid Dynamic Wireless Microphone Capsule (Black)</td>
</tr>
<tr>
<td>ADX2FD/K9N</td>
<td>with KSM9 Dual-Pattern Condenser Wireless Microphone Capsule (Black)</td>
</tr>
<tr>
<td>ADX2FD/K9H</td>
<td>with KSM9HHS Multi-Pattern Dual Diphagm Condenser Wireless Microphone Capsule (Black)</td>
</tr>
<tr>
<td>ADX2FD/K9M</td>
<td>with KSM9 Dual-Pattern Condenser Wireless Microphone Capsule (Nickel)</td>
</tr>
<tr>
<td>ADX2FD/K9MS</td>
<td>with KSM9 Multi-Pattern Dual Diphagm Condenser Wireless Microphone Capsule (Black)</td>
</tr>
<tr>
<td>ADX2FD/K9S</td>
<td>with VP68 Omnidirectional Condenser Wireless Microphone Capsule</td>
</tr>
<tr>
<td>ADX2FD/VP68</td>
<td>with VP68 Omnidirectional Condenser Wireless Microphone Capsule</td>
</tr>
</tbody>
</table>

Available Frequency Bands

<table>
<thead>
<tr>
<th>Band</th>
<th>Range (MHz)</th>
<th>Single Carrier</th>
<th>Frequency Diversity</th>
</tr>
</thead>
<tbody>
<tr>
<td>G53</td>
<td>470 to 510</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>G54</td>
<td>479 to 565</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>G55</td>
<td>470 to 636*</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>G56</td>
<td>470 to 636</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>G57</td>
<td>470 to 616*</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>G62</td>
<td>510 to 530</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>K53</td>
<td>606 to 698*</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>K54</td>
<td>606 to 663**</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>K55</td>
<td>606 to 694</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>K56</td>
<td>606 to 714</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>K57</td>
<td>606 to 790</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>K58</td>
<td>622 to 698</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>L54</td>
<td>630 to 787</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>RS2</td>
<td>794 to 806</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>JB</td>
<td>806 to 810</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>X51</td>
<td>925 to 937.5</td>
<td>2/10/50</td>
<td>2/10/20</td>
</tr>
<tr>
<td>X55</td>
<td>941 to 960</td>
<td>2/10/50</td>
<td>2/10/35</td>
</tr>
</tbody>
</table>

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

Updated: 08/18

www.shure.com

Whilst every effort has been made to ensure that the information in this document is correct, we accept no liability in respect of errors or omissions. All specifications within this document are subject to change without notice.

© 2018 Shure Incorporated
Component Specifications

**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**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency</strong></td>
<td>470–865, 925–952 MHz</td>
</tr>
<tr>
<td><strong>Step Size</strong></td>
<td>25, 200, 1000 kHz</td>
</tr>
<tr>
<td><strong>Scan Time</strong></td>
<td>The Spectrum Manager scans the entire RF tuning frequency range in 64 seconds using 8 scanning modules in parallel. Maximum scan time per 60 MHz may be less for specified ranges that allow scanning modules to work in parallel. Step Size</td>
</tr>
<tr>
<td>25 kHz</td>
<td>48 seconds</td>
</tr>
<tr>
<td>*200 kHz</td>
<td>7 seconds</td>
</tr>
<tr>
<td>*1000 kHz</td>
<td>1 second</td>
</tr>
<tr>
<td><strong>Noise Floor</strong></td>
<td>Resolution Bandwidth: 25 kHz: -110 dBm</td>
</tr>
<tr>
<td></td>
<td>200 kHz: -100 dBm</td>
</tr>
<tr>
<td></td>
<td>1000 kHz: -90 dBm</td>
</tr>
<tr>
<td><strong>Image Rejection</strong></td>
<td>&gt;110 dB, typical</td>
</tr>
<tr>
<td><strong>Spurious Response</strong></td>
<td>&lt;100 dB, typical</td>
</tr>
<tr>
<td><strong>Ultimate Quieting</strong></td>
<td>&gt;90 dB, A-Weighted</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>44 mm x 483 mm x 366 mm (1.7 in x 19.0 in x 14.4 in), H x W x D</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>5.5 kg (12.0 lbs)</td>
</tr>
<tr>
<td><strong>Power Requirements</strong></td>
<td>100 to 240 V AC, 50-60 Hz</td>
</tr>
<tr>
<td><strong>Current Drain</strong></td>
<td>0.8 A RMS (referenced at 120 V AC)</td>
</tr>
<tr>
<td><strong>Operating Temperature Range</strong></td>
<td>-18°C (0°F) to 63°C (145°F)</td>
</tr>
<tr>
<td><strong>RF Input</strong></td>
<td>Connector Type: BNC</td>
</tr>
<tr>
<td><strong>Configuration</strong></td>
<td>Unbalanced, active</td>
</tr>
<tr>
<td><strong>Maximum Input Level</strong></td>
<td>-30 dBm</td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
<td>50 Ω</td>
</tr>
<tr>
<td><strong>Bias Voltage</strong></td>
<td>12 V DC, 150 mA (300 mA maximum)</td>
</tr>
<tr>
<td><strong>Cascade Output</strong></td>
<td>Connector Type: BNC</td>
</tr>
<tr>
<td><strong>Configuration</strong></td>
<td>Unbalanced, active</td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
<td>50 Ω</td>
</tr>
<tr>
<td><strong>Insertion Loss</strong></td>
<td>&lt;5 dB</td>
</tr>
<tr>
<td><strong>Monitor Audio Output</strong></td>
<td>Audio Frequency Response: 40 – 18 kHz, ±3 dB</td>
</tr>
<tr>
<td><strong>Configuration</strong></td>
<td>Unbalanced mono, 1/4 in. (will drive stereo phones)</td>
</tr>
<tr>
<td><strong>Impedance</strong></td>
<td>50 Ω</td>
</tr>
<tr>
<td><strong>Maximum Signal Level (40 kHz max. deviation)</strong></td>
<td>1 W @ 63 Ω</td>
</tr>
<tr>
<td><strong>Pin Assignments</strong></td>
<td>Tip: audio +</td>
</tr>
<tr>
<td></td>
<td>Ring: audio +</td>
</tr>
<tr>
<td></td>
<td>Sleeve: ground</td>
</tr>
<tr>
<td><strong>Networking</strong></td>
<td>Power Over Ethernet (PoE): 50 V DC, Class 1</td>
</tr>
<tr>
<td><strong>Network Interface</strong></td>
<td>Dual Port Ethernet 10/100</td>
</tr>
<tr>
<td><strong>Network Addressing Capability</strong></td>
<td>DHCP or Manual IP address</td>
</tr>
</tbody>
</table>
Component Specifications (continued)

Included Components

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>95N2035</td>
<td>1-foot Coaxial Cascade Cable (2)</td>
</tr>
<tr>
<td>95A9128</td>
<td>IEC AC Power Cable (1)</td>
</tr>
<tr>
<td>95A9129</td>
<td>IEC AC Extension Cable (1)</td>
</tr>
<tr>
<td>C803</td>
<td>Shielded 3-foot Ethernet Cable (1)</td>
</tr>
<tr>
<td>C8006</td>
<td>Shielded 6-inch Ethernet Jumper Cable (1)</td>
</tr>
<tr>
<td>95XN1171</td>
<td>Hardware Kit (1)</td>
</tr>
<tr>
<td>95B8023</td>
<td>22-inch Coaxial Cable* (1)</td>
</tr>
<tr>
<td>95C9023</td>
<td>33-inch Coaxial Cable* (1)</td>
</tr>
</tbody>
</table>

* with integrated bulkhead for front mounting antennas.
Component Specifications

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

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>44 mm x 483 mm x 366 mm (1.7 in. x 19.0 in. x 14.4 in.), H x W x D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>4.6 kg (10.1 lbs)</td>
</tr>
<tr>
<td>Housing</td>
<td>Steel; Extruded aluminum</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-18°C (0°F) to 63°C (145°F)</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-29°C (-20°F) to 74°C (165°F)</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>100 to 240 V AC, 50-60 Hz</td>
</tr>
<tr>
<td>Current Drain</td>
<td>1.0 A RMS (referenced at 120 V AC)</td>
</tr>
</tbody>
</table>

RF Input
- Connector type: BNC
- Configuration: Unbalanced, active
- Band Filters:
  - 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: 710-790 MHz
    - Band Q5: 740-814 MHz

Impedance: 50 Ω
- Bias Voltage: 12 V DC, 150 mA (300 mA maximum)
- RF Frequency Range:
  - AXT 630: 470-698 MHz
  - AXT 631: 606-814 MHz

Distribution Output
- Connector type: BNC (4 pairs)
- Configuration: Unbalanced, active
- Impedance: 50 Ω
- Gain Adjustment Range:
  - Cascade Enabled: -15 dB to 0 dB (In 1 dB steps)
  - Cascade Disabled: -12 dB to +3 dB (In 1 dB steps)
- Output Intercept Point: >25 dBm, typical
- Cascade Output
- Connector type: BNC (1 pair)
- Configuration: Unbalanced, wideband
- Impedance: 50 Ω
- Insertion Loss: <5 dB

Networking
- Power Over Ethernet (PoE): 50 V DC, Class 1
- Network Interface: Dual Port Ethernet 10/100 Mbps
- Network Addressing Capability: DHCP or Manual IP address
**Component Specifications (continued)**

**Included Components**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UA802</td>
<td>2-foot Coaxial Antenna Cable (RG-58) (12)</td>
</tr>
<tr>
<td>95A9128</td>
<td>IEC AC Power Cable (1)</td>
</tr>
<tr>
<td>95A9129</td>
<td>IEC AC Extension Cable (1)</td>
</tr>
<tr>
<td>C805</td>
<td>Shielded 3-foot Ethernet Cable (1)</td>
</tr>
<tr>
<td>C8006</td>
<td>Shielded 6-inch Ethernet Jumper Cable (1)</td>
</tr>
<tr>
<td>95RN1171</td>
<td>Hardware Kit (1)</td>
</tr>
<tr>
<td>95B9023</td>
<td>22-inch Coaxial Cable* (1)</td>
</tr>
<tr>
<td>95C9023</td>
<td>33-inch Coaxial Cable* (1)</td>
</tr>
</tbody>
</table>

* with integrated bulkhead for front mounting antennas.

**Optional Accessories**

**1/2 Wave Antennas**

<table>
<thead>
<tr>
<th>Antenna</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>UA820G</td>
<td>744-866 MHz</td>
</tr>
<tr>
<td>UA820H4</td>
<td>690-746 MHz</td>
</tr>
<tr>
<td>UA820J</td>
<td>554-590 MHz</td>
</tr>
<tr>
<td>UA820K</td>
<td>606-666 MHz</td>
</tr>
<tr>
<td>UA820L3</td>
<td>638-698 MHz</td>
</tr>
<tr>
<td>UA820M</td>
<td>694-758 MHz</td>
</tr>
<tr>
<td>UA820Q</td>
<td>740-814 MHz</td>
</tr>
<tr>
<td>UA820P8</td>
<td>710-790 MHz</td>
</tr>
</tbody>
</table>

**Antennas**

<table>
<thead>
<tr>
<th>Antenna</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UA8655SWB</td>
<td>Passive Omnidirectional Antenna (470-1100 MHz)</td>
</tr>
<tr>
<td>PA8355SWB</td>
<td>Passive Directional Antenna (470-952 MHz)</td>
</tr>
<tr>
<td>HA-8089</td>
<td>PWS Helical Antenna (440-900 MHz)</td>
</tr>
</tbody>
</table>

**In-Line RF Amplifiers**

<table>
<thead>
<tr>
<th>Amplifier</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>UA830WB</td>
<td>470-900 MHz</td>
</tr>
<tr>
<td>UA830USTV</td>
<td>470-698 MHz</td>
</tr>
</tbody>
</table>

**Active Directional Antennas**

<table>
<thead>
<tr>
<th>Antenna</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UA870WB</td>
<td>470-900 MHz</td>
</tr>
<tr>
<td>UA870USTV</td>
<td>470-698 MHz</td>
</tr>
</tbody>
</table>

**Cables**

<table>
<thead>
<tr>
<th>Cable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UA825</td>
<td>25-foot Coaxial Cable RG8/X</td>
</tr>
<tr>
<td>UA850</td>
<td>50-foot Coaxial Cable RG8/X</td>
</tr>
<tr>
<td>UA8100</td>
<td>100-foot (30.4 m) Antenna Extension Cable</td>
</tr>
</tbody>
</table>

**AXT630 Antenna Distribution System Front**

**AXT630 Antenna Distribution System Back**
Component Specifications

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 the network to the best available channel if signal degrades
- Is compatible with Axient Digital ADX series and Axient analog (AXT series) systems.

Specifications

<table>
<thead>
<tr>
<th>Antenna Type</th>
<th>2 Omnidirectional 2.4 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>24 Axient transmitters</td>
</tr>
<tr>
<td>Mounting Type</td>
<td>WA371 Mic Clip or 1/4-20 thread mount</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>–18 °C (0 °F) to 63 °C (145 °F)</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>–29 °C (~–20 °F) to 74 °C (165 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>190 mm x 102 mm x 47 mm (7.34 in. x 3.96 in. x 1.825 in.) H x W x D, without antenna</td>
</tr>
<tr>
<td>Weight</td>
<td>464 g (16.3 oz.), without antenna</td>
</tr>
<tr>
<td>Housing</td>
<td>Extruded Aluminum</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>Power over Ethernet (PoE) Class 1: 36 to 57 VDC/VAC</td>
</tr>
<tr>
<td>External Power Supply</td>
<td>15 V DC (600 mA), double insulated</td>
</tr>
<tr>
<td>ShowLink Network Type</td>
<td>IEEE 802.15.4</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>2.40 to 2.4835 GHz (16 Channels)</td>
</tr>
<tr>
<td>RF Output Power</td>
<td>10 dBm (ERP) / 20 dBm (ERP)</td>
</tr>
<tr>
<td>Working Range</td>
<td>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.</td>
</tr>
<tr>
<td>Antenna Connection</td>
<td>Connector 2 SMA (Shell=Ground, Center=Signal)</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 Ω</td>
</tr>
<tr>
<td>Scanning Radio</td>
<td>Scanner RF Sensitivity –106 dBm, typical (integrated antenna)</td>
</tr>
<tr>
<td>Networking</td>
<td>Network Interface Ethernet 10/100</td>
</tr>
<tr>
<td>Available Models</td>
<td>AD610 Showlink Wireless Access Point</td>
</tr>
</tbody>
</table>

Furnished Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA371</td>
<td>Wireless microphone clip for mounting on a microphone stand</td>
</tr>
<tr>
<td>C825</td>
<td>Shielded 25-foot Ethernet cable for ShowLink access point, RJ45-to-EtherCon connector</td>
</tr>
<tr>
<td>S1A1856</td>
<td>Euro thread adapter for WA371</td>
</tr>
<tr>
<td>PS43</td>
<td>Power Supply (regionally dependent)</td>
</tr>
</tbody>
</table>

Optional Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AXT644</td>
<td>Directional 2.4 GHz Patch Antenna</td>
</tr>
</tbody>
</table>
Component Specifications

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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>Up to 8 SB910/SB920</td>
</tr>
<tr>
<td>Charge Current</td>
<td>1.25 A maximum</td>
</tr>
<tr>
<td>Charge Time</td>
<td>1 hour 50%</td>
</tr>
<tr>
<td></td>
<td>3 hours: 100%</td>
</tr>
<tr>
<td>External Power Supply</td>
<td>PS60</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>0 °C (32 °F) to 60 °C (140 °F)</td>
</tr>
<tr>
<td>Housing</td>
<td>Molded ABS</td>
</tr>
<tr>
<td>Dimensions</td>
<td>35 mm × 397 mm × 137 mm (1.4 in. × 15.6 in. × 5.40 in.) L × W × D</td>
</tr>
<tr>
<td>Weight</td>
<td>0.91 kg (2 lb), Without Batteries</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-18 °C (0 °F) to 50 °C (122 °F)</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-29 °C (-20 °F) to 74 °C (165°F)</td>
</tr>
<tr>
<td>Networking</td>
<td>10/100 Mbps Ethernet</td>
</tr>
<tr>
<td>Network Addressing Capability</td>
<td>DHCP or Manual IP address</td>
</tr>
</tbody>
</table>

SBC840 8-bay Networked Charger

Updated: 08/18

Whilst every effort has been made to ensure that the information in this document is correct, we accept no liability in respect of errors or omissions. All specifications within this document are subject to change without notice.
# Component Specifications

## 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

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>Up to 8 SB910M</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charge Current</td>
<td>5.75 A maximum</td>
</tr>
<tr>
<td>Charge Time</td>
<td>1 hour: 50%, 3 hours: 100%</td>
</tr>
<tr>
<td>External Power Supply</td>
<td>PS60</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>15 V, 3.33 A maximum</td>
</tr>
<tr>
<td>Housing</td>
<td>Molded ABS</td>
</tr>
<tr>
<td>Dimensions</td>
<td>52 × 88 × 250 mm (2.0 × 3.5 × 9.9 in) H × W × D</td>
</tr>
<tr>
<td>Weight</td>
<td>425 g (1 lb)</td>
</tr>
</tbody>
</table>

#### Operating Temperature Range

Note: Battery characteristics may limit this range

-18 ºC (0 ºF) to 50 ºC (122 ºF)

#### Storage Temperature Range

Note: Battery characteristics may limit this range

-29 ºC (-20 ºF) to 74 ºC (165ºF)

### Networking

- Network Interface: 10/100 Mbps Ethernet
- Network Addressing Capability: DHCP or Manual IP address

---

**SHURE**

Updated: 08/18

Whilst every effort has been made to ensure that the information in this document is correct, we accept no liability in respect of errors or omissions. All specifications within this document are subject to change without notice. © 2018 Shure Incorporated
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

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

SBC240 2-Bay Networked Charger
Component Specifications

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Type</td>
<td>Up to 8 rechargeable Li-Ion batteries</td>
</tr>
<tr>
<td>Charge Time</td>
<td>50% = 1 hour; 100% = 3 hours</td>
</tr>
<tr>
<td>Charging Module Type</td>
<td>Up to 4 charging modules in any combination</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-18 °C (0 °F) to 63 °C (145 °F)</td>
</tr>
<tr>
<td>Battery Charging Temperature Range</td>
<td>0 °C (32 °F) to 60 °C (140 °F)</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-29 °C (-20 °F) to 74 °C (165 °F)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>44 mm x 483 mm x 366 mm (1.7 in. x 19.0 in. x 14.4 in.), H x W x D</td>
</tr>
<tr>
<td>Weight</td>
<td>4.4 kg (9.8 lbs), without batteries or charging modules</td>
</tr>
<tr>
<td>Housing</td>
<td>Steel, Extruded aluminum</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>100 to 240 V AC, 50/60 Hz</td>
</tr>
<tr>
<td>Current Draw</td>
<td>1.8 A RMS (referenced at 90 V AC)</td>
</tr>
<tr>
<td>Networking</td>
<td>Ethernet 10/100 Mbps</td>
</tr>
<tr>
<td>Network Addressing Capability</td>
<td>DHCP or Manual IP address</td>
</tr>
<tr>
<td>Furnished Accessories</td>
<td>IEC AC Power Cable (1)</td>
</tr>
<tr>
<td></td>
<td>90XN1371</td>
</tr>
<tr>
<td></td>
<td>Hardware Kit (1)</td>
</tr>
<tr>
<td></td>
<td>C803</td>
</tr>
<tr>
<td></td>
<td>Shielded 3-foot Ethernet Cable (1)</td>
</tr>
<tr>
<td></td>
<td>SOB13476</td>
</tr>
<tr>
<td></td>
<td>Mounting Screws for Charger Modules (8)</td>
</tr>
</tbody>
</table>

Optional Accessories

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

Updated: 08/18

Whilst every effort has been made to ensure that the information in this document is correct, we accept no liability in respect of errors or omissions. All specifications within this document are subject to change without notice.

© 2018 Shure Incorporated

www.shure.com
## Component Specifications

### SB900A Lithium-Ion Rechargeable Battery

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Capacity</td>
<td>1450 mAh</td>
</tr>
<tr>
<td>Nominal Voltage</td>
<td>3.7 V</td>
</tr>
<tr>
<td>Dimensions</td>
<td>7 mm x 34 mm x 50 mm (0.28 in. x 1.34 in. x 1.97 in.), H x W x D</td>
</tr>
<tr>
<td>Weight</td>
<td>40 g (1.41 oz.)</td>
</tr>
<tr>
<td>Housing</td>
<td>Engineered Thermoplastic Resin</td>
</tr>
<tr>
<td>Charging Temperature Range</td>
<td>0 °C (32 °F) to 45 °C (113 °F)</td>
</tr>
<tr>
<td>Discharging Temperature Range</td>
<td>-18 °C (0 °F) to 60 °C (140 °F)</td>
</tr>
<tr>
<td>Recommended Storage Temperature Range</td>
<td>10 °C (50 °F) to 25 °C (77 °F)</td>
</tr>
</tbody>
</table>

### SB910 Lithium-Ion Rechargeable Battery

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Capacity</td>
<td>2200 mAh</td>
</tr>
<tr>
<td>Nominal Voltage</td>
<td>3.6 V</td>
</tr>
<tr>
<td>Dimensions</td>
<td>13.9 mm x 39.4 mm x 53.3 mm (0.54 in. x 1.55 in. x 2.10 in.), H x W x D</td>
</tr>
<tr>
<td>Weight</td>
<td>48 g (1.69 oz.)</td>
</tr>
<tr>
<td>Housing</td>
<td>Engineered Thermoplastic Resin</td>
</tr>
<tr>
<td>Charging Temperature Range</td>
<td>0 °C (32 °F) to 60 °C (140 °F)</td>
</tr>
<tr>
<td>Discharging Temperature Range</td>
<td>-18 °C (0 °F) to 60 °C (140 °F)</td>
</tr>
<tr>
<td>Recommended Storage Temperature Range</td>
<td>10 °C (50 °F) to 25 °C (77 °F)</td>
</tr>
</tbody>
</table>

### SB910M Lithium-Ion Rechargeable Battery

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Capacity</td>
<td>1150 mAh</td>
</tr>
<tr>
<td>Nominal Voltage</td>
<td>3.7 V</td>
</tr>
<tr>
<td>Dimensions</td>
<td>8.8 mm x 38.8 mm x 54.1 mm (0.35 in. x 1.53 in. x 2.13 in.), H x W x D</td>
</tr>
<tr>
<td>Weight</td>
<td>31 g (1.09 oz.)</td>
</tr>
<tr>
<td>Housing</td>
<td>Engineered Thermoplastic Resin</td>
</tr>
<tr>
<td>Charging Temperature Range</td>
<td>0 °C (32 °F) to 60 °C (140 °F)</td>
</tr>
<tr>
<td>Discharging Temperature Range</td>
<td>-18 °C (0 °F) to 60 °C (140 °F)</td>
</tr>
<tr>
<td>Recommended Storage Temperature Range</td>
<td>10 °C (50 °F) to 25 °C (77 °F)</td>
</tr>
</tbody>
</table>

### SB920 Lithium-Ion Rechargeable Battery

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Capacity</td>
<td>2500 mAh</td>
</tr>
<tr>
<td>Nominal Voltage</td>
<td>3.6 V</td>
</tr>
<tr>
<td>Dimensions</td>
<td>20.8 mm x 23.7 mm x 72.8 mm (0.83 in. x 0.93 in. x 2.87 in.), H x W x D</td>
</tr>
<tr>
<td>Weight</td>
<td>54 g (1.90 oz.)</td>
</tr>
<tr>
<td>Housing</td>
<td>Engineered Thermoplastic Resin</td>
</tr>
<tr>
<td>Charging Temperature Range</td>
<td>0 °C (32 °F) to 60 °C (140 °F)</td>
</tr>
<tr>
<td>Discharging Temperature Range</td>
<td>-18 °C (0 °F) to 60 °C (140 °F)</td>
</tr>
<tr>
<td>Recommended Storage Temperature Range</td>
<td>10 °C (50 °F) to 25 °C (77 °F)</td>
</tr>
</tbody>
</table>