AXIENT DIGITAL
INTEGRITY
YOU CAN HEAR.
IT’S A COMPLEX WORLD FOR WIRELESS MICROPHONES.

The RF environment is ever-changing—jammed with TV transmissions, mobile devices, and other wireless equipment. And it’s becoming more congested and unpredictable every day.
AXIENT® DIGITAL MAKES IT PERFECTLY CLEAR.

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.
AXIENT® DIGITAL
ONE SYSTEM.
PROMISCUOUS
POSSIBILITIES.

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.

AD Series Transmitters

ACCESSIBLE PERFORMANCE.

Offering a variety of core benefits including high-performance RF, digital audio, and networking, the AD series represents the new standard in professional wireless. Powered by either AA or SB900A rechargeable batteries, these transmitters fit easily into existing workflows.

ADX Series Transmitters

TRANSFORMATIONAL TECHNOLOGY.

Critical applications call for the enhanced features of the ADX series. With form factors that include a frequency diversity handheld and the first micro-bodypack with an internal self-tuning antenna, these ShowLink®-enabled transmitters offer real-time remote control plus automatic interference detection and avoidance.

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Spectral Efficiency
A robust High Density transmission mode increases system channel count dramatically — with up to 47 active channels per 6-Mhz TV band (63 channels/8MHz) — all while maintaining exceptional audio quality.

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.

RF Protection

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>True Digital Diversity</td>
<td>Mounting a better defense against multipath, fading events, and other RF anomalies, Axient Digital combines two discrete RF signals per receiver channel using a quality-based maximal-ratio-combining algorithm.</td>
</tr>
<tr>
<td>Operating Range</td>
<td>Selectable transmission modes and power levels enable optimum range and audio quality, with analog-type resilience, artifact-free muting, and fast signal recovery at end of range.</td>
</tr>
<tr>
<td>Frequency Diversity</td>
<td>Signal quality is maximized by transmitting two identical signals on independent frequencies. If the active signal degrades, the other takes over automatically. With the AX2KTO handheld transmitter, Axient Digital monitors and combines the transmissions for a flawless audio signal.</td>
</tr>
<tr>
<td>Wide Tuning Receivers and Transmitters</td>
<td>An expansive tuning bandwidth of up to 184MHz across all receivers and transmitters supplies broad strategic spectrum coverage, while simplifying inventories for both sellers and operators.</td>
</tr>
<tr>
<td>Interference Detection and Avoidance</td>
<td>With real-time monitoring via the AX600 Spectrum Manager, sound engineers can neutralize RF interference by manually switching the signal to a clear backup frequency, or by programming the system to do it automatically.</td>
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</tbody>
</table>

RELIABILITY IS IN THE AIR.
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.

Ultra-low Latency
An impressive 2 milliseconds from microphone transducer to analog output guarantees seamless, cohesive sound.*

Transparent Sound
A flat frequency response over a wide range from 20Hz to 20kHz provides accurate audio reproduction.

Dynamic Range
Wide dynamic range of >120 dB yields impressive signal-to-noise performance and accurate transient response.

Encryption
An Advanced Encryption Standard (AES) 256-bit encrypted signal ensures that every transmission is secure and unbreakable.

Digital Outputs
Dante™ digital audio transmits via a configurable 4-port switch for combined control/audio or separate streams with redundancy. AES3 output provides an additional option for pristine digital audio.

HEAR NOTHING BUT QUALITY.
Command and Control
ShowLink® remote control, Wireless Workbench®, the ShurePlus™ Channels app, and networked battery monitoring provide unmatched control and insight, for seamless performance.

SEE THROUGH THE NOISE.

Wireless Workbench and the ShurePlus Channels App
Wireless Workbench offers total control—with an enhanced interface, access to advanced RF spectrum and Timeline plotting, frequency coordination, and live performance monitoring. Control and monitor capabilities can also be extended to a mobile device with the ShurePlus Channels iOS app.

ShowLink Remote Control
ShowLink gives engineers comprehensive real-time remote control of all transmitter parameters using a robust 2.4GHz diversity wireless connection, so settings can be changed right from the control booth.

Dante™ Cue and Dante™ Browse
Dante Cue enables monitoring of every Axient Digital channel on the network through a single headphone output, with the single push of a button. Plus, Dante Browse offers high-fidelity monitoring of any Dante-enabled device on the network.

Networked Charging
Smart, high-performance batteries and chargers provide detailed visibility and remote monitoring of critical parameters such as remaining runtime in hours and minutes and charging status.
Receivers

SCALABLE.

One receiver platform is the gateway to the full range of features, from high-performance RF and transparent digital audio, to software control. With Quadversity™, the AD4Q can assign four antennas to a single channel for greater coverage and signal quality.

AD4D Two-Channel Receiver

- Compatible with all AD and ADX transmitters
- 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 (AD4Q only)
- Optional DC module available to support redundant power

AD4Q Four-Channel Receiver

- Configurable Ethernet switch for redundant Dante® digital output
- Configurable Ethernet switch for redundant Dante® digital output
- Locking AC connectors
- Switchable XLR/AES3 outputs
- Cascade antenna ports can be switched to Quadversity inputs
- Channel Quality meter displays RF signal-to-noise
AD Series Transmitters

ACCESSIBLE.

AD series handheld and bodypack transmitters put professional-quality wireless digital audio within reach, with breakthrough RF performance and wide tuning up to 184MHz.

AD1

Bodypack Transmitter

- 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

AD2

Handheld Transmitter

- Two transmission modes:
  - Standard for optimal coverage
  - New High Density mode for maximum system channel count and robust coverage
- Frequency and power lockout
- Rugged metal construction in Black or Nickel finish
- External contacts for docked charging
- AA or SB900A Li-ion rechargeable batteries

Also available with these Shure microphone cartridges

KSM9
KSM9HS
SM58®
VP68
BETA®
87A
BETA®
87C
BETA®
58A
KSM8
Black
KSM8
Nickel
Low-profile, lockable power switch

Backlit LCD with easy-to-navigate menu and controls

Detachable Li-ion antenna

Two connector options

LEMO3, TA4
ADX Series Transmitters

TRANSFORMATIONAL.

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

ADX1M Micro-Bodypack Transmitter
- Small and streamlined design for better concealment and wear
- Internal adaptive antenna optimized for optimal performance when ADX1M is worn against the body
- Durable, moisture-resistant, lightweight metal case
- SB910 rechargeable batteries for up to 9 hours of runtime
- Detachable belt clip
- Membrane-style buttons and LEMO connection protect against sweat and moisture ingress
- Diversity ShowLink-enabled for remote transmitter control and automatic interference avoidance

ADX1 Bodypack Transmitter
- Sleek, light design with powerful features
- Advanced control menu, removable antenna, fully concealed buttons and switch
- Durable, moisture-resistant, lightweight magnesium metal case
- SB910 rechargeable batteries for up to 9 hours of runtime
- AAA-compatible sled available
- External contacts for docked charging
- Diversity ShowLink-enabled for remote transmitter control and automatic interference avoidance

ADX2 Handheld Transmitter
- Sleek design with powerful features
- Durable, moisture-resistant, lightweight metal case, available in Black or Nickel finish
- SB920 rechargeable batteries for up to 9 hours of runtime
- AAA-compatible sled available
- External contacts for docked charging, with optional fully-covered radome
- Diversity ShowLink-enabled for remote transmitter control and automatic interference avoidance

ADX2FD Frequency Diversity Handheld Transmitter
- Able to transmit RF signal on two discrete carriers
- Optional 50mW high-power mode drives a single frequency with increased power
- Durable, moisture-resistant, lightweight metal case, available in Black or Nickel finish
- SB920 rechargeable batteries for up to 6.5 hours of runtime
- AAA-compatible sled available
- External contacts for docked charging, with optional fully-covered radome
- Diversity ShowLink-enabled for remote transmitter control and automatic interference avoidance

High-contrast OLEDb display
- Recessed LEMO connector

Also available with these Shure microphone cartridges
- KSM9
- KSM9HS (In Black or Nickel)
- VP68
- KSM8 Black or Nickel
- KSM8B Black or Nickel
- BETA58A
- BETA58C
- BETA58A
- SM58®
- SM58®
System Management

POWERFUL.

Axient® Digital offers unprecedented remote control and monitoring for easy coordination of clean, usable frequencies no matter what kind of RF environment you face.

AXT600 Spectrum Manager
- Single rack unit delivers wide-band UHF spectrum scanning and analysis, plus configurable frequency coordination
- Scans and analyses the global UHF spectrum (470-952 MHz) in approximately one minute
- Continuously monitors, evaluates, and displays back-up frequencies in real-time
- Is compatible with Axient Digital and other Shure networked access systems

AD610 Diversity ShowLink® Access Point
- Wireless network connectivity between all linked transmitters and receivers
- Enables rapid remote wireless remote control of up to 16 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 2.4GHz frequency range
- Automatic channel selection scans the 2.4GHz range for the best channel
- Automatic frequency agility moves the network to the best available channel if signal degrades
- Is compatible with Axient Digital ADX series and Axient analog systems

Additional Accessories
- Battery sleds
- Radome covers
- Locking power cords
- ShowLink talk switches for handhelds and bodypacks

Batteries

RECHARGEABLE.

A range of networked battery solutions for AD and ADX transmitters includes the rack-mounted SBRC and a series of units that support individual and docked charging.

SBRC Rackmount Charging Station
- Accommodates eight Li-ion batteries in a single rack space
- Front-panel display for battery parameters including time-to-full in hours and minutes and percent-of-capacity
- Remote monitoring via Shure Wireless Workbench®

SBRC800 8-bay charger
- SB910A batteries (AD1 and AD2)
- Remote monitoring via Shure Wireless Workbench

SBRC840 8-bay charger
- SB910A batteries (AD1)
- SB920 batteries (AD2G and AD2F-2)
- Remote monitoring via Shure Wireless Workbench

SBRC840M 8-bay charger
- SB910M batteries (ADX1M micro-bodypack)
- Remote monitoring via Shure Wireless Workbench

SBC200 2-bay dock charger
- SB910A batteries (AD1 and AD2)

SBC240 2-bay dock charger
- SB910A batteries (AD1)
- SB920 batteries (AD2G and AD2F-2)
- Remote monitoring via Shure Wireless Workbench

SBC800 8-bay charger
- SB910A batteries (AD1 and AD2)

SBC840 8-bay charger
- SB910A batteries (AD1)
- SB920 batteries (AD2G and AD2F-2)
- Remote monitoring via Shure Wireless Workbench

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- Remote monitoring via Shure Wireless Workbench®

SBRC800 8-bay charger
- SB910A batteries (AD1 and AD2)
- Remote monitoring via Shure Wireless Workbench

SBRC840 8-bay charger
- SB910A batteries (AD1)
- SB920 batteries (AD2G and AD2F-2)
- Remote monitoring via Shure Wireless Workbench

SBRC840M 8-bay charger
- SB910M batteries (ADX1M micro-bodypack)
- Remote monitoring via Shure Wireless Workbench

SBC200 2-bay dock charger
- SB910A batteries (AD1 and AD2)

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