**Axient Digital AD Architectural Specifications:**

The system shall include a professional wireless receiver with preconfigured group, channel and frequency setups and RF scanning options for operation of the single rack unit with compatible wireless systems operating within an extended spectrum of UHF (470-960 MHz). Includes tuning bandwidth of up to 184MHz (selectable RF band) with Standard Mode capable of up to 17 channels in a 6 MHz TV band whereas High Density Mode is capable of 47 channels in a 6 MHz TV Band.

All receivers in the system shall support Dante, frequency diversity and audio summation. Additionally receivers will be compatible with the Spectrum Manager. The whole system shall deliver high-quality transparent audio, with a flat frequency response over a wide range from 20Hz to 20 kHz providing accurate audio reproduction and a low-latency of 2 ms in standard mode and 2.9 ms in high density mode.

System shall include True Digital Diversity and optional Quadversity mode (only in the four-channel receiver) for extended antenna coverage and improved RF signal-to-noise. An AES 256-bit encrypted signal is featured ensuring that every transmission is secure and unbreachable. Monitoring Modes are available through Dante Cue and Dante Browse.

Available transmitters shall be compatible with a number of different microphone capsules.

The transmitter shall include a bodypack and handheld and shall be powered by a Shure SB900A Lithium Ion Battery or 2 AA batteries and shall have a power on/off switch. When operated with the Shure SB900A Battery, the transmitter shall make available to the monitoring system remaining run time in hours and minutes accurate to within 15 minutes, percentage health, percentage charge, charge cycles, and temperature. The transmitter will have a high-contrast OLED display indicating name, device ID, battery status, frequency, and transmission mode (standard vs high density). Additionally, the AD1 bodypack features TA4 or LEMO3 connector options.

The transmitter shall be compatible with a networked charging station that allows for networked remote monitoring of the docked transmitter, including battery condition.

Wireless Workbench shall offer total control — with an enhanced interface, access to advanced RF spectrum and Timeline plotting, frequency coordination, and live performance monitoring. Shure Plus Channels shall enable remote, real-time, precision control of Axient Digital via IOS devices.