xIO Bluetooth RCA-3.5 Audio Endpoint

PoE-powered, Dante-enabled endpoints with high-performance audio quality for the connection of user supplied devices.

DETAIL

The xIO Bluetooth RCA-3.5 audio endpoint shall mount in a standard US dual-gang box

The endpoint device shall provide a 4 channel transmit and 4 channel receive network audio interface utilizing the Dante protocol and support AES67.

The endpoint device shall provide a wireless Bluetooth 5.0 Audio connection and support unidirectional stereo media streaming and bidirectional call bridging operating modes.

The device shall provide selectable single or multiple memorized Bluetooth pairings

The device shall provide selectable Bluetooth modes of media only, phone only, or both.

The front panel of the device shall provide a Bluetooth pairing button and LED indicators for Bluetooth Status and Device Status.

The device shall include an LED blackout mode.

The device shall provide PIN code security.

The device’s stereo Bluetooth audio channels shall be available to the Dante/AES67 network on transmit channels 1 and 2.

The device’s mono Bluetooth audio transmit channel when in call bridging operating mode shall be sourced from the Dante/AES67 network receive channel.

The device shall communicate with an AVoIP DSP system, system management software host control, and power via 10/100 Mbps Ethernet using standard TCP/IP protocols using an RJ-45 port on the rear panel.

The device shall connect via a standard CAT5e or CAT6 Ethernet cable with a maximum device to device length of 100 meters.

Computer connection for configuration shall be via a hosting DSP unit’s rear panel Ethernet connector that communicates with the devices via Dante.

A system management software application shall be provided for device configuration and programming that operates on a Windows computer, with a network interface installed, running Windows 10 ® or higher operating system.

A system management application shall develop and manage the device’s Bluetooth mode, connection, security, front panel control and monitoring button, panel status LED color, transport and pairing control.

The maximum number of devices per system shall be 80 units per site file.

The device shall provide two unbalanced RCA analog line inputs and an unbalanced 3.5mm TRS analog line input

The configured analog inputs on the device shall be available to the Dante/AES67 network on transmit channels 3 and 4.

Each input of the device shall have summing, level, mute, and metering controllable via software.

The analog outputs of the device shall be sourced from the Dante/AES67 network receive channels 1-4.

Remote Monitoring of the system shall be provided via a cloud monitoring platform, which will provide native monitoring of all manufacturer devices and third-party Dante devices. The remote monitoring platform shall also be capable of monitoring an unlimited number of professional networked audio-visual, and related equipment from over 90 different manufacturers.

The device audio conversion sampling rate shall be 24-bit, 48 kHz.

The RCA/3.5mm input of the device shall have a maximum input level of 12 dBu, +10 dBV

The RCA/3.5mm input of the device shall have a frequency response of 20Hz - 20kHz, ± 0.5 dB

The RCA/3.5mm input of the device shall have THD+N of <0.005% @ 0 dB gain, 1 kHz @ +4 dBu input level

The RCA/3.5mm input of the device shall have Crosstalk of <-93 dB @ 1 kHz

The RCA/3.5mm input of the device shall have a SNR of >96 dB @ 1 kHz

The RCA/3.5mm output of the device shall have a maximum input level of +12 dBu, +10 dBV

The RCA/3.5mm output of the device shall have a frequency response of 20Hz – 20kHz, ± 0.1 dB

The RCA/3.5mm output of the device shall have THD +N of <0.005% @ 0 dB gain, 1 kHz @ +4 dBu output level

The RCA/3.5mm output of the device shall have Crosstalk of <-99 dB @ 1 kHz

The RCA/3.5mm output of the device shall have a SNR of >103 @ 1 kHz

The device shall be powered over Ethernet (PoE) by 802.3af Class 0 compliant source, 15.4 Watts maximum.

The chassis of the device shall be constructed of cold rolled steel..

The device shall meet UL/CSA/CE safety requirements and comply with CE and FCC Part 15 emissions limits.

The environmental ambient operating temperature of the device shall be 0° - 40° C (32° - 104° F).

The dimensions of the device shall be 3.6 x 4.2 x 2.1 inches (91.74 x 108.80 x 52.40 mm)

The product weight: of the device shall be 0.65 lb (0.29 kg)

The shipping weight: of the device shall be 1.10 lb (0.5 kg).

The device shall be UL/CSA/EN 62368-1 compliant.

The device shall be FCC 15.107:2021, FCC 15.109:2021 emissions compliant

The device shall be ICES003:2020 emissions compliant

The device shall be emissions compliant with CE Radio Equipment Directive (RED):
EN 300 328 V2.2.2:2019, EN 301 489-1 v2.2.3:2019, EN 301 489-17 v3.2.4:2020, EN 55035, EN 55032

The device shall be RoHS compliant.