

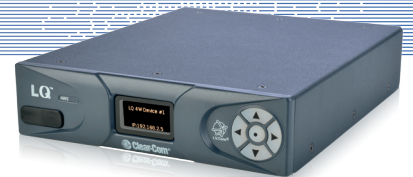
LQ-2W2 / LQ-4W2

LQ™ Interfaces for Clear-Com

Linking
People
Together



LQ-2W2



LQ-4W2

Key Features and Benefits

- Compact 2-channel interface box
- Two options: 2-wire and 4-wire
- Connect over LAN, WAN or Internet
- Adjustable bandwidth on a per port basis
- Uses low-latency OPUS codec
- Clear-Com and RTS 2-wire connectivity
- 2-wire powering, termination and auto-nulling
- Up to 6 devices can be connected together
- Browser-based configuration software (PC, MAC, Tablet)
- Powered via local 12V DC power supply or PoE
- Rugged and lightweight
- Yellow OLED front panel menu display
- Red/Green keypad status LED

The LQ is a compact interface box that can connect 2-wire and 4-wire audio and call signaling over IP networks.

Description

LQ IP interfaces are compact boxes that enable connection of 2-wire partyline and 4-wire audio devices over LAN, WAN or Internet IP infrastructures. LQ is available in 2-wire (LQ-2W2) or 4-wire (LQ-4W2) options. The LQ-2W2 is both Clear-Com and RTS compatible. Two standalone partyline intercom circuits can easily be constructed by connecting two LQ-2W2 interfaces. The LQ-4W2 can interconnect with devices, such as analog ports of any matrix intercom system, analog telephone circuits, two-way radio gate-ways and audio consoles. A maximum of six LQ IP devices can be linked together in any 2- or 4-wire combination.

Audio Assignments

At least two ports must be associated to a channel. When the two or more ports are added to a channel, it becomes a Virtual Partyline (VPL).

Connectors

Both LQ devices have two Neutrik etherCON series lockable RJ45 chassis connectors for network connectivity. The LQ-2W2 has two 3-pin XLR-F audio port connectors for partyline audio. The LQ-4W2 has two additional Neutrik etherCON audio port connectors for analog 4-wire audio.

Power

The LQ-2W2 can power the partyline, allowing the user to connect a beltpack without the need of a power supply to locally power the line. A total of 5 beltpacks can be locally powered or one beltpack can be powered using PoE.

Network Technology

The LQ devices use the low-latency OPUS codec. The OPUS adjustable audio codec meets various data rate, bandwidth and quality requirements.

Core Configuration Manager (CCM)

CCM is a free browser-based software tool with intuitive menus for quick setup and configuration editing that supports the latest versions of all major browsers on MAC, PC and tablet platforms. LQ devices can be added and removed from the system by editing the configurations via the CCM software.

Technical Specifications

Audio

Resolution: 12 bit
Sample Rate: 24KHz
Frequency Response: 100 – 12KHz
CODEC: OPUS

LQ-2W2

Input Gain: -3dB to +3dB
Output Gain: -3dB to +3dB

LQ-4W2

Input Gain: -12dB to +12dB
Output Gain: -12dB to +12dB

Network Setting

Bit Rates: 32, 48, 64, 128Kbps
Packet Size: 5, 10, 20, 40, 60ms
Jitter Buffers: 0 - 1000ms

Connectors

LQ-2W2

2 x EtherCON (female): 2 x Network
2 x 3 Pin XLR (female): 2 x Audio I/O

LQ-4W2

2 x EtherCON (female): 2 x Network
2 x EtherCON (female): 2 x Audio I/O

Partyline Output Current

Type: Clear-Com & RTS
Local DC Powered: 150mA
POE Powered: 70mA

Power Supply

Plug-in adapter with sleeve locking connector
(US, UK, Europe, AUS & China sockets included)
Input: 100-240V, 47-63Hz, 0.58A MAX
Output: DC 12V, 2A, 24W MAX

Environmental

Operating Temperature: +32°F - +104°F (0°C - +40°C)
Storage Temperature: -67°F - +158°F (-55°C - +70°C)
Humidity: 90%, non-condensing

Dimensions

6.8in W x 1.79in H x 8.45in D
(173mm x 46mm x 215mm)

Weight

1.83lbs (.83kg)

Front and Back Panels



LQ-2W2 Front Panel



LQ-2W2 Rear Panel

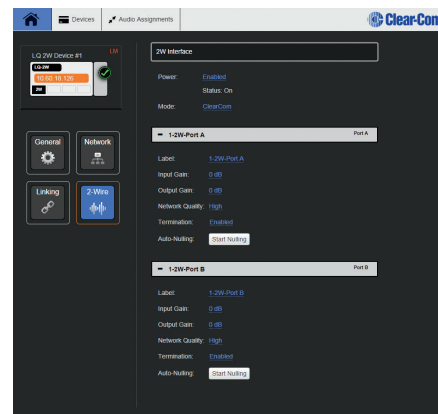


LQ-4W2 Front Panel

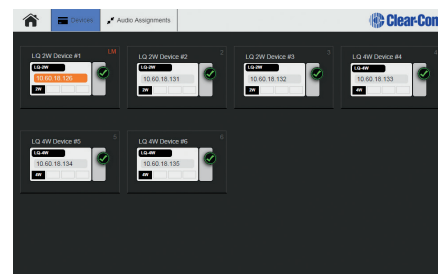


LQ-4W2 Rear Panel

Core Configuration Manager (CCM)



Port Configuration Screen



Devices Screen

Notice About Specifications

While Clear-Com makes every attempt to maintain the accuracy of the information contained in its product manuals, that information is subject to change without notice. Performance specifications included in this manual are design-center specifications and are included for customer guidance and to facilitate system installation. Actual operating performance may vary.