

HLI-4W2 Interface Module

Digital Partyline Solutions

Linking
People
Together



HLI-4W2

Key Features and Benefits

Interface

- 4-Wire Interface module for HMS-4X
- Transformer isolated
- Level and VOX control
- Clear-Com call signal

The HelixNet System

- Networked Intercom System
- Flexible Cabling
- 12 partyline channels. Expandable to 24 channels via optional license
- Program Audio distribution with independent level

Effortless Management

- Fast front panel control and configuration
- Easy to use CCM browser configuration tool using optional HLI-ET2
- Plug-and-go installation with hardwire auto-discovery
- Central upgrades automatically managed from main station

HelixNet is a fully networked partyline intercom, supporting up to 24 channels and independent program audio over XLR, LAN and WAN.

Interfacing

HLI-4W2's 4-wire analog transformer and electrically isolated interfaces are assignable to any channel in the HelixNet system and provide discreet analog line-level input and output. The 4-wire ports allow connectivity to any 4-wire intercom system, cameras, telephone circuits, stage announce, recorders or any other generic audio devices. Level control and VOX/Gate capability is provided for each interface to accommodate the connected device.

HLI-4W2 include call signaling circuits when used with compatible Clear-Com devices such as Eclipse matrix and FreeSpeak II Base II basestation.

Local and Central Management Options

HLI-4W2 can be added to any HMS-4X main station with an available option slot. Once installed, any channel can be controlled and independently assigned to either 4-wire port locally on the HMS-4X front panel or centrally managed from the Core Configuration Manager (CCM).

| Pin | Function |
|-----|-----------------------|
| 1 | RS422 data TX (+) |
| 2 | RS422 data TX (-) |
| 3 | Audio to matrix (+) |
| 4 | Audio from matrix (+) |
| 5 | Audio from matrix (-) |
| 6 | Audio to matrix (-) |
| 7 | RS422 data RX (+) |
| 8 | RS422 data RX (-) |

Technical Specifications

Connectors

XLR Powerline: (2) RJ45 (Ethercon)

4-wire Option Module Inputs

Maximum Level Before Clipping: 18dBu

Nominal Input Level: 0dBu (selectable)

Input Impedance: $\geq 10K\Omega$

Route to 4-wire input at 0dBu in:

Frequency Response: 20 Hz - 10 kHz $\pm 3dB$

Distortion: $< 0.2\%$ THD @ 1kHz

Noise: $< -65dBu$

4-wire Option Module Inputs

Maximum Level Before Clipping: 18dBu

Nominal Input Level: 0dBu (selectable)

Input Impedance: $\leq 100\Omega$

Route to 4-wire input at 0dBu in:

Frequency Response: 300 Hz - 12 kHz $\pm 3dB$

Distortion: $< 0.1\%$ THD @ 1kHz

Noise: $< -55dBu$

Dimensions

2.2 x 7.4 x 1.5 in (HxWxD)

(57 x 187 x 39 mm)

Weight

13 oz (0.38 kg)

Network Specifications

Network Protocols

Ethernet IPv4 - Unicast Audio and Control

mDNS - Multicast Device Discovery

Layer 3 routable with mDNS function limitations WavPack - Audio Codec

Network Ports

Unicast:

Port 80 TCP - System Management

Port 6001 TCP - System Management

Port 6001 UDP - Audio Streams

Multicast:

Port 5353 UDP - mDNS, Names, Discovery

Network Parameters

Endpoint resource use: 1 per active port

Bandwidth:

300 (max) kbps from each active port to HMS

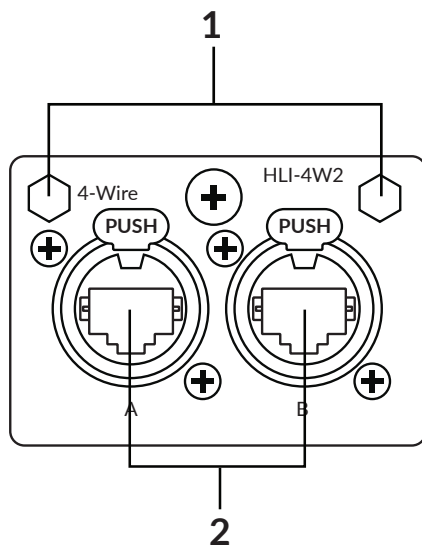
1200 (max) kbps from HMS to each active port

QoS tags:

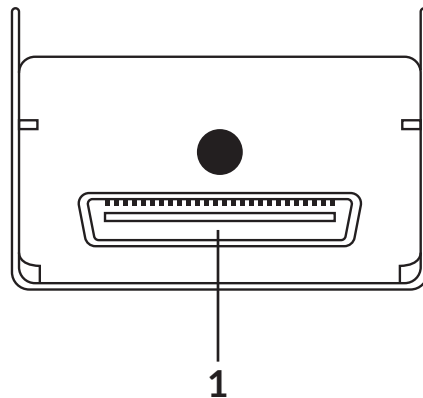
DSCP=46, High Priority / Expedited Forwarding (EF)

System reserved IP range: 10.0.0.0/8 for endpoints

HLI-4W2 Front



HLI-4W2 Back



Legend

Front

1. Handle Mounting Point
2. RJ45 Connector

Back

1. Blade Connector to HelixNet Main Station option slot

Order Code

HLI-4W2