HLI-4W2 4-Wire Interface Module

Digital Partyline Solutions

Linking People Together

ClearCom HLL-4W2 A B

HLI-4W2

Key Features and Benefits

Interface

- 4-wire interface for HMS-4X**
- Transformer isolated
- Level and VOX control
- Clear-Com call signal

The HelixNet System

- Wired Partyline Networked
- Flexible cabling
- Up to 24 Channels Licensed
- Program Audio user level control

Effortless Management

- Fast front panel control & configuration
- Easy to use CCM browser configuration
- Plug-and-go with auto discovery
- Central upgrades from main station

HelixNet[®] is a networked partyline intercom with up to 24 channels and Program Audio over XLR, LAN or WAN.

Description

The HelixNet HLI-4W2 is a dual 4-wire interface module for the HMS-4X** main station.

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 linelevel 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® HX matrices and FreeSpeak II® Base II base stations.

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 independently assigned to either 4-wire port locally on the HMS-4X^{**} front panel or centrally 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 (-)

*CCM requires HLI-ET2

**HMS-4X is a legacy product as of 2022

Note: HMS-4X and HLI modules are not used in Arcadia[®] hosted HelixNet systems. HMS-4X and HLI Modules are legacy products as of 2022 and not recommended for new system designs and specifications, existing HMS-4X units and HLI modules are supported under Clear-Com's Warranty Terms.



HLI-4W2 4-Wire Interface Module

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Technical Specifications

Connectors 4-wire: (2) EtherCON RJ45

4-wire Option Module Inputs

Maximum Level Before Clipping: 18dBu Nominal Input Level: OdBu (selectable) Input Impedance: >= 10KΩ

Route to 4-wire output at 0dBu in: Frequency Response: 20Hz - 10kHz ±3dB Distortion: <0.2% THD @ 1kHz Noise: <-65dBu

4-wire Option Module Outputs

Front

Maximum Level Before Clipping: 18dBu Nominal Output Level: 0dBu (selectable) Output Impedance: <= 100Ω

Route to 4-wire input at 0dBu in: Frequency Response: 300Hz - 12kHz ±3dB Distortion: <0.1% THD @ 1kHz Noise: <-55dBu

Dimensions

2.2 x 7.4 x 1.5in (HxWxD) (57 x 187 x 39mm)

Weight 13oz (0.38kg)

Network Specifications

(Firmware Version 4.2+)

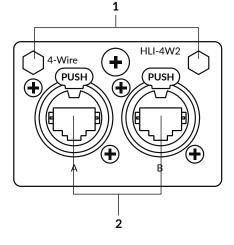
Network Protocols

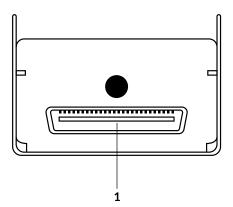
Ethernet IPv4–Unicast Audio and Control mDNS–Multicast Device Discovery Layer 3 routable with mDNS function limitations HTTP–Management RTP–Audio Transport WavPack–Audio Codec

Network Ports

Unicast: Port 80 TCP-System Management Port 6001 TCP-System Management Port 6001 UDP-Audio Streams

Back





Multicast: Port 5353 UDP-mDNS, Names, Discovery

Network Parameters HMS-4X^{**} 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

Network Jitter Tolerance:

<= 128ms jitter buffer per audio stream receiver automatically adjusted to network performance

QoS Tags:

DSCP=41, Assured Forwarding (AF)

System Reserved IP Range: 10.0.0.0/8 for endpoints

Legend

Front

- 1. Handle mounting point
- 2. RJ45 connector

Back

1. Blade connector to HelixNet Main Station option slot

Order Code

HLI-4W2



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