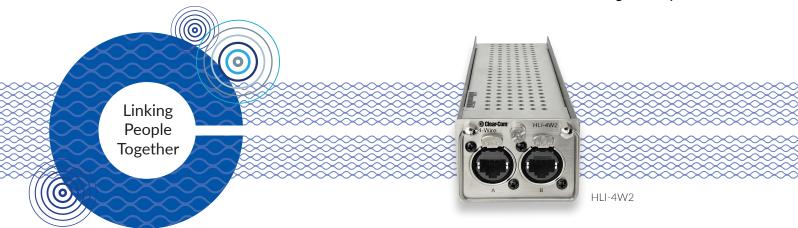
# HelixNet 4-Wire Interface Module

**Digital Partyline Solutions** 



### **Key Features and Benefits**

### Interface

- 4-wire interface for HMS-4X<sup>2</sup>
- 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<sup>2</sup> main station.

### Interfacing

HelixNet 4-wire module'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.

HelixNet 4-wire moduleinclude call signaling circuits when used with compatible Clear-Com devices such as Eclipse® HX matrices, Arcadia Central Station, FreeSpeak Edge and FreeSpeak II® Base II base stations.

# **Local and Central Management Options**

HelixNet 4-wire module 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  $^{\text{TM}}$  (CCM $^{\text{1}}$ ).

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 (-)

<sup>1</sup>CCM requires HLI-ET2

<sup>2</sup>HMS-4X is a legacy product



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

# HelixNet 4-Wire Interface Module

**Digital Partyline Solutions** 

# **Technical Specifications**

#### Connectors

4-wire: (2) EtherCON RJ45

### 4-wire Option Module Inputs

Maximum Level Before Clipping: 18dBu Nominal Input Level: 0dBu (selectable) Input Impedance:  $>= 10K\Omega$ 

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

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

Route to 4-wire input at OdBu 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 4.5+)

#### **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

#### Multicast:

Port 5353 UDP-mDNS, Names, Discovery

#### **Network Parameters**

HMS-4X<sup>2</sup> 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

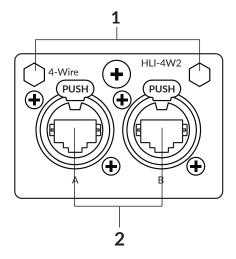
#### **QoS Tags**

DSCP=34, Assured Forwarding (AF=41)

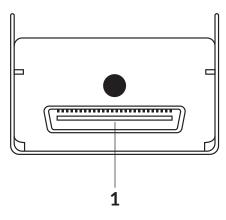
### System Reserved IP Range:

10.0.0.0/8 for endpoints

## **Front**



# Back



# Legend

#### Front

- 1. Handle mounting point
- 2. RJ45 connector

### Back

 Blade connector to HelixNet Main Station option slot

# **Order Code**

HLI-4W2





