


# HLI-4W2 Interface Module

Digital Partyline Solutions



Linking  
People  
Together



HLI-4W2

### Key Features and Benefits

- 4-wire interface module
- Matrix port, camera and telephone circuit assignment from HelixNet main station
- Two RJ-45 connectors per module

HelixNet is a digital partyline system with up to 24 channels of full-duplex audio and program audio over any shielded twisted-pair cable.

### Description

The HLI-4W2 is a 4-wire interface module that enables 4-wire audio paths, such as matrix ports, cameras and telephone circuits to interface with HelixNet intercom channels. It fits within one of the three rear panel interface slots of an HMS-4X main station. The HLI-4W2 connects two 4-wire analog audio circuits to HelixNet intercom channels. Two RJ-45 connectors on the module connect the external 4-wire circuits and can be assigned via the main station menu. Each of the two ports utilizes both transformer and electrical balancing for hum and noise-free audio paths.

### 4-wire Interface Module Pin-Out

Enables interoperability with the Eclipse digital matrix system and other 4-wire audio sources (camera and telephone hybrids, announcer boxes, public address and stage announce systems). It also enables HelixNet-to-HelixNet connections using 4-wire audio ports.

Pin	Function
1	RS-422 data TX (+)
2	RS-422 data TX (-)
3	Audio to matrix (+)
4	Audio from matrix (+)
5	Audio from matrix (-)
6	Audio to matrix (-)
7	RS-422 data RX (+)
8	RS-422 data RX (-)

## Technical Specifications

### Connectors

**Intercom Line:** (2) RJ-45 (Ethernet)

### 4-wire Option Module Inputs

**Maximum Level Before Clipping:** 18dBu

**Nominal Input Level:** 0dBu (selectable)

**Input Impedance:**  $\geq 10K\Omega$

The following specified for a route to four-wire input at 0dBu in:

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

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

**Noise:**  $< -65$ dBu

### 4-wire Option Module Inputs

**Maximum Level Before Clipping:** 18dBu

**Nominal Input Level:** 0dBu (selectable)

**Input Impedance:**  $\leq 100\Omega$

The following specified for a route to four-wire input at 0dBu in:

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

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

**Noise:**  $< -55$ dBu

### Dimensions

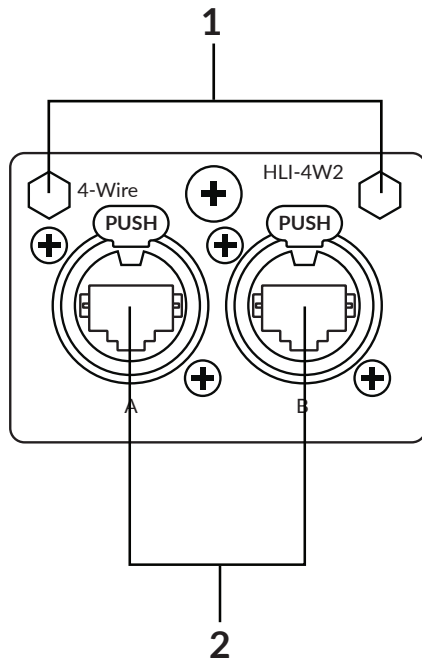
2.2 x 7.4 x 1.5 in (HxWxD)

(57 x 187 x 39 mm)

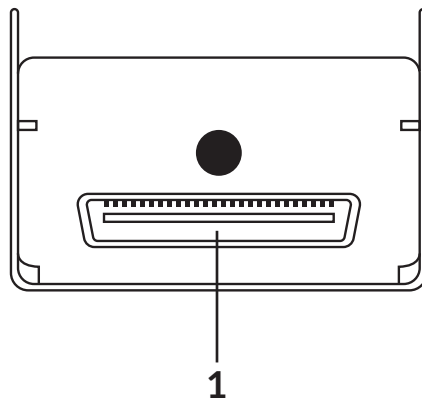
### Weight

13 oz (0.38 kg)

## HLI-4W2 Front



## HLI-4W2 Back



## Legend

### Front

1. Handle Mounting Point
2. RJ-45 Connector

### Back

1. Blade Connector to HelixNet Main Station option slot

## Order Code

HLI-4W2