

# HLI-ET2 Ethernet Interface Module

Digital Partyline Solutions

Linking  
People  
Together



HLI-ET2

## Key Features and Benefits

### Network Interface

- CCM System Control
- HMS and LQ Linking
- User station connection
- Dual port Ethernet switch

### 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<sup>®</sup> is a networked partyline intercom with up to 24 channels and Program Audio over XLR, LAN or WAN.

## Description

The HelixNet HLI-ET2 is a dual port\* Ethernet switch interface module for the HMS-4X main station.

## Networking

The HLI-ET2 allows access to HelixNet's internal network for HMS-4X or LQ<sup>®</sup> Series linking, user station network connection, system control and monitoring.

HLI-ET2 can be added to any HMS-4X main station with an available option slot. Once installed, the system can be centrally managed from the browser-based Core Configuration Manager<sup>™</sup> (CCM<sup>\*\*</sup>).

Pin	Name	Function
1	TX+	Transmit data (+)
2	TX-	Transmit data (-)
3	RX+	Receive data (+)
4	N/C	Not Connected
5	N/C	Not Connected
6	RX-	Receive data (-)
7	N/C	Not Connected
8	N/C	Not Connected

\*Both ports are configured to bridge traffic from one port to the other in order to work in daisy-chain. Spanning Tree Protocol is not enabled on those ports. Do not connect them both to the same network.

\*\*CCM requires HLI-ET2

**Note:** HMS and HLI modules are not used in Arcadia<sup>®</sup> hosted HelixNet systems

# HLI-ET2 Ethernet Interface Module

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## Technical Specifications

### Connectors

**LAN A and B:** (2) EtherCON RJ45

### LAN Network Connection

10/100 BaseT  
DHCP Capable  
Configured for Daisy-Chaining

### Dimensions

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

### Weight

13oz (0.35kg)

## 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 655 TCP–Link Group Audio/Database  
Communication  
Port 6001 TCP–System Management  
Port 6001 UDP–Audio Streams

#### Multicast:

Port 5353 UDP–mDNS, Names, Discovery,  
Linking, Expansion  
Optional for device names and linking

### Network Parameters

**HMS-4X Endpoint Resource Use:** None

#### Bandwidth:

300 kbps per audio input linking between  
HMS/LQ  
Link Group audio sent dynamically between  
members  
300-600 (max) kbps from an active audio input  
to HMS  
1200-2400 (max) kbps from HMS to endpoint

### Network Jitter Tolerance:

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

### QoS Tags:

DSCP=41, Assured Forwarding (AF)

### Link-Local Default IP Address Ranges:

169.254.0.0/16

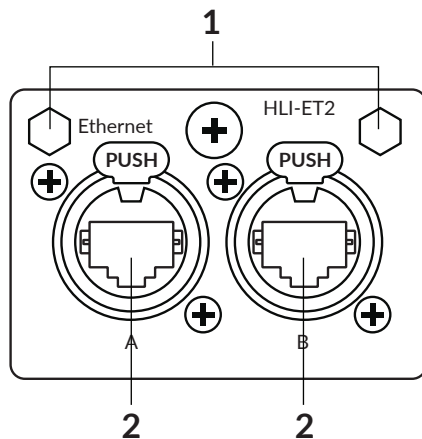
### System Reserved IP Ranges:

10.0.0.0/8 for endpoints  
172.23.0.0/16 for Link Group

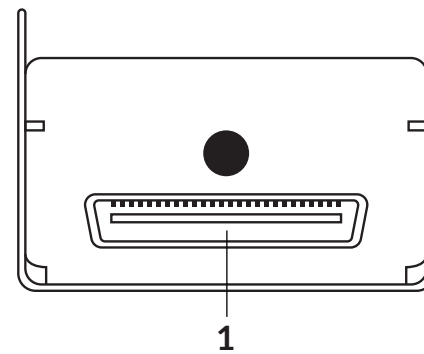
### Recommended Ethernet Switches

- Managed Ethernet Switch – Layer 3
- 100/1000 Base-T ports for endpoints
- 1000 Base IP Trunks between switches
- QoS Configuration
- Energy Efficient Ethernet bypass option
- IGMP Snooping bypass option

## HLI-ET2 Front



## HLI-ET2 Back



## Legend

### Front

1. Handle mounting point
2. RJ45 connector

### Back

1. Blade connector to HelixNet  
Main Station option slot

## Order Code

HLI-ET2



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