HelixNet Ethernet Interface Module

Digital Partyline Solutions

Linking People Together



HLI-ET2

Key Features and Benefits

Network Interface

- CCM System Control
- HMS-4X 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[®] 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 1 Ethernet switch interface module for the HMS-4X 3 main station.

Networking

The HelixNet Ethernet Interface Moduleallows access to HelixNet's internal network for HMS-4X or LQ $^{\odot}$ Series linking, user station network connection, system control and monitoring.

HelixNet Ethernet Interface Module 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[™] (CCM²).

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

¹Both 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 both to the same network.

²CCM requires HLI-ET2

³HMS-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.



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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 4.5+)

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 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:

Back

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=34, Assured Forwarding (AF=41)

Link-Local Default IP Address Ranges: 169.254.0.0/16

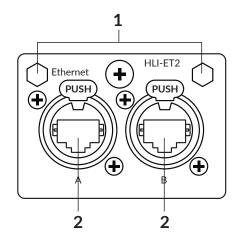
System Reserved IP Ranges:

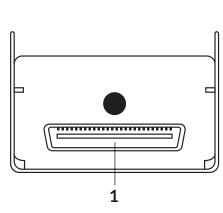
10.0.0/8 for endpoints 172.23.0.0/16 for Link Group

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

Front





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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