

E-DANTE64-HX Interface Card

Eclipse® HX Matrix Systems



E-DANTE64-HX Interface Card

Key Features and Benefits

- Up to 64 duplex channels per card
- Sample frequency choices of 44.1kHz, 48kHz and 96kHz
- Selectable Channel/Port quantity 16, 32 and 64
- VOX on all 64 inputs
- Channel labels can be derived from 3rd party devices
- DANTE channels can be used for high capacity matrix linking or audio distribution
- Network redundancy with primary and secondary NICs
- AES67 compatibility with simultaneous support for Dante and AES67 connections
- Optional SFP fiber interface fitted on both primary and secondary network interfaces
- When managed with Dante Domain Manager, supports SMPTE ST2110-30/AES67 connection to and from third party devices; requires a license for Dante Domain Manager

Interface cards are 6RU frame cards for the Eclipse HX-Delta, Median and Omega system frames that establish intelligent connections for high density, high performance and high reliability.

Description

The E-DANTE64-HX card can operate in one of the multiple DANTE configurations, providing an Eclipse® HX with 16, 32 or 64 channels of low latency, high quality AoIP connectivity. Additionally, it can support all of the standard sample frequencies for professional use, including the 96kHz/32-channel option for high quality audio.

Connectivity

The E-DANTE64-HX rear card provides two Ethernet RJ45 primary and secondary network interfaces. Additionally, two SFP cages enable optional fiber transceivers to be fitted for either primary or secondary network interfaces.

SMPTE ST2110/AES67 Compatibility

The E-DANTE64-HX card supports the audio component of SMPTE ST2110 for connection to third party SMPTE devices. Note: Dante Domain Manager is required. AES67 streams can be configured in flows of up to eight channels each.

Voice Activated Switching (VOX)

Each input channel features a DSP-based audio detector and provides a range of configurable VOX features. These include adjustable VOX threshold level, audio gating, VOX tallies and logic triggering. These enable the AoIP channels to be fully integrated into intercom operations.

Channel Labeling

The matrix system configuration software, EHX, can enable intercom panels to display channel labels incoming from the Dante network. For each channel, the panel label can show the current Dante Controller's channel label or the label of the current audio source routed to the channel.

Matrix Linking

The 64-channel, high density connection is ideal for local linking up to 64 conversations or conferences between adjacent systems using one fiber pair connection. On each card, any number of channels (up to 64) can be configured as intelligent trunks. One or more cards can support intelligent linking to other Eclipse HX matrix frames over available IP infrastructures. Dante firmware version v4.2 (and above) required for SMPTE ST2110 support.

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LED Status

The front card LEDs show the configured sampling frequency, channel quantity, LAN connectivity and card health indication.

Technical Specifications

Maximum cards per frame: 7
Ports per card: 64

Audio

Channel Settings: 16, 32 and 64
Sample Rates: 44.1, 48 and 96kHz
Bit Depth: 24 bits
Master Clock: Configurable; generate or receive
Input Level Control Range: For each channel, the gain is configurable between 0dB and -45dB
Output Level Control Range: For each channel, the gain is configurable between 0dB and -45dB
VOX Setting Range: Between 0dBFS and -45dBFS, in 1dB increments

Connectors

RJ45 (x2): 100 Mbps/1 Gbs; auto-sensing ethernet, primary and secondary network interfaces
SFP Cage (x2): SFP transceivers, primary and secondary network interfaces

Environmental

Operating Temperature:
+32° to +113° F (0° to +45° C)
Storage Temperature:
-22° to +158° F (-30° to +70° C)
Humidity: 90%, non-condensing

Dimensions

Height: 6RU (vertically in Eclipse HX-Median and Omega frames, or horizontally in Eclipse HX-Delta frames)

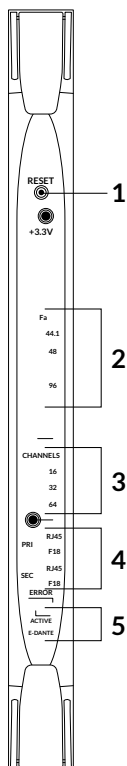
Depth

Front Panel: 11.8in (300mm)
Rear Panel: 2.28in (58mm)

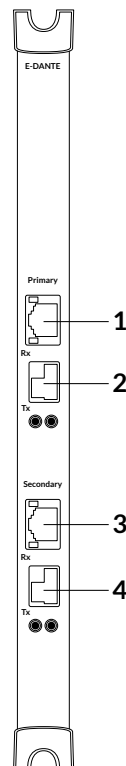
Weight

Front Card: 1.64lbs (0.75kg)
Rear Card: 9.2oz (0.26kg)

Front Panel



Back Panel



Legend

Front Panel

1. Pin card reset
2. Sample rate indication
3. Channel quantity indication
4. Primary and Secondary RJ45 or Fiber connections
5. Health indication

Back Panel

1. Primary RJ45 connector
2. Primary Fiber cage
3. Secondary RJ45 connector
4. Secondary Fiber cage

Order Code

E-DANTE64-HX

Optional SFP transceivers ordered separately:
DA-MMFO-1G-SX: multi-mode transceiver
DA-SMFO-1G-LX: single-mode transceiver