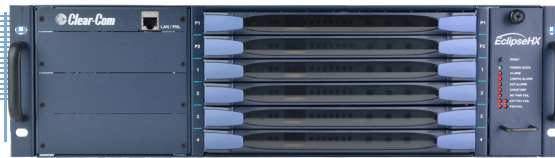


# Eclipse HX-Delta Lite Matrix Frame

Eclipse HX Digital Matrix Solutions

Linking  
People  
Together



Eclipse HX-Delta Lite

## Key Features and Benefits

- Compact 3RU Card Frame
- Two Versions
  - 1 CPU card, 1 MVX card and 1 open slot for any card
  - 1 CPU card, 2 MVX cards
- \* Each version has 3 interface modules slots
- Software license to unlock all card slots
- Up to 80 internal ports
- Dual PSUs for redundancy
- Dual cooling fans
- Alarms for frame temperature, external PCU failure and fan failure
- Front to rear LAN/Panel patch
- Front carrying handles for easy rack installation and extraction
- Fully compatible with Clear-Com V-Series Iris, V-Series, iStation, ICS panels and Agent-IC® mobile app
- Replaceable fan/alarm card
- Replaceable power card
- Supported by EHX software for configuration and management

The Eclipse® HX-Delta Lite is an entry-level matrix frame offering a highly configurable solution for customers who require complex intercom communication.

## Description

The Eclipse HX-Delta Lite is a 3RU matrix intercom system frame with slots for one CPU card, two I/O interface cards and three interface modules. The Delta Lite comes in two versions:

**Version 1:** 16 port matrix (1 MVX card, open slot for any card)

**Version 2:** 32 port matrix (2 MVX cards)

Two external power supplies are provided. RJ45 and fiber connectors are located on the rear of the chassis, connecting the CPU and interface cards to intercom devices and media, such as user panels, interfaces, 4-wire audio equipment, wireless equipment and fiber optic cables.

A license-based upgrade opens all of the card slots which turns the frame into a full Eclipse HX-Delta frame.

## Interface Cards

Serving as the central hub for connecting 16 to 80 ports of audio channels, the Eclipse HX-Delta Lite achieves this level of connectivity with a combination of two Eclipse HX I/O interface cards. Interface cards include: E-IPA-HX (up to 64 ports of IP connectivity), E-Dante-HX (up to 64 Dante channels), E-MADI64-HX (64 bidirectional channels to any AES10 compatible device), E-Que-HX (wireless cell controller or trunking line), MVX-A16-HX (analog RJ45). The E-FIB-HX (fiber connection) can connect Eclipse matrices together to expand existing intercom systems into larger systems.

## Interface Modules

The Eclipse HX-Delta Lite is designed with three available interface module slots for converting the 4-wire signals of the matrix to other types of signals that communicate with devices such as telephones, 2-way radios, camera intercoms, partylines and other forms of external communication.

Interface modules include: TEL-14 (telephone interface), CCI-22 (dual partyline interface), FOR-22 (4-wire interface), GPI-6 (general purpose inputs) and the RLY-6 (relay outputs).

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## Expandable Architecture and Connections

Eclipse HX frames can intelligently trunk with multiple types of media including 4-wires, E1/T1, IP, MADI or a redundant Fiber + Data ring. A single intelligent networked system may include any combination of Eclipse HX-Delta Lite, -Delta, -Median, or -Omega systems. Networked system size varies from 72 to thousands of ports over many Eclipse frames.

## Power and Redundancy

The system offers dual redundant external power supplies to ensure no system failure at any point during critical use. One power supply unit can power an entire matrix, while the second unit provides a backup in case of failure or damage to the first unit. A built-in sensor is connected to both an audible failure alarm and a warning light, allowing the system operator to diagnose a potential problem and take action.

## Software

The Eclipse HX Configuration Software (EHX) provides configuration for all Eclipse HX matrices and networked systems.

## Technical Specifications

0 dBu is referenced to 0.775 volts RMS

### Matrix Capabilities

**Maximum Expansion Cards:** 2  
**Maximum CPU Cards:** 1 (included)  
**Maximum Power Supply Units:** 2 (included)  
**Maximum Fiber Expansion Cards:** 1 (if second slot available)  
**Ports per MVX Port Card:** 2  
**Maximum MVX Port Cards:** 1  
**Maximum E-QUE, IVC-32, LMC-64 Port Cards:** 1 (if second slot available)  
**Maximum E-IPA 16, 32 or 64 Port Card:** 1 (if second slot available)  
**Maximum EMADI-64 Port Cards:** 1 MADI (if second slot available)  
**Maximum RJ45 Ports per Matrix:** 64  
**Maximum Timeslots:** 512

### Matrix Performance

**Sample Rate:** 48kHz  
**Resolution:** 24 bit  
**Frequency Response:** at 48kHz sampling: 30Hz - 22kHz  $\pm$  3dBu  
**Crosstalk (Adjacent Channel):** <-70dBu **Nominal Level:** 0dBu  
**Matrix Headroom:** +18dBu  
**Distortion:** <0.05 %, @ 0dBu, 300Hz to 10kHz;  
<0.1 %, @ 0dBu, 100Hz to 20kHz  
**Off Noise:** <-70dBu (20Hz - 22kHz)  
**On Noise:** <-65dBu (20Hz - 22kHz)  
**Key Response, Intra-System:** <40ms for audio route  
**Linked Systems:** <60ms for audio between matrices

### Power Supplies

**Quantity:** 2 per matrix  
**Mounting:** External  
**AC Power Input:** IEC (1 per PSU)  
**Input Voltage:** AC 100 Volts - 240 Volts, 50/60 Hz  
**Power Consumption:** 150 Watts Maximum  
**Status Indicators:** LEDs viewable from front of rack

### Environmental

**Operating Temperature:** 32°F - 104°F (0°C - 40°C)  
**Storage Temperature:** -67°F - 158°F (-55°C - 70°C)  
**Humidity:** 90% non-condensing

### Dimensions

19 x 5.25 x 17.5in. (WxHxD)  
(482 x 133 x 445mm)

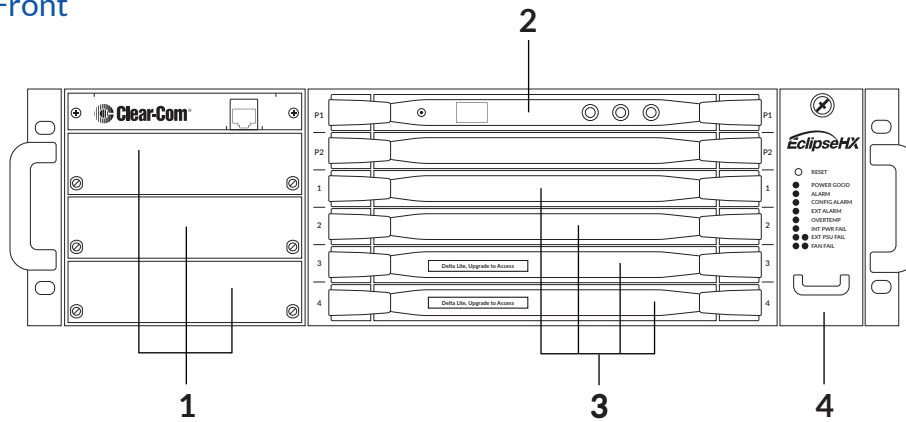
### Weight

**Empty:** 18lbs (8.2kg)  
**Fully Loaded:** 32.5lbs (14.7kg)

# Eclipse HX-Delta Lite Matrix Frame

Eclipse HX Digital Matrix Solutions

## Front



## Legend

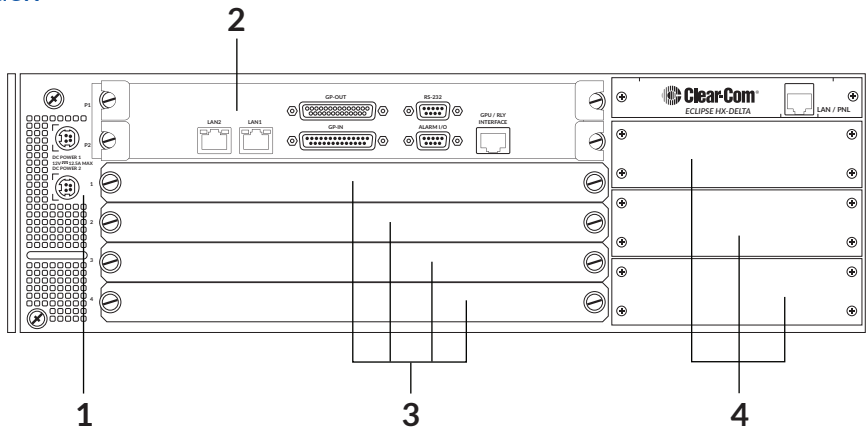
### Front

1. Interface Module Slots
2. CPU Card (one card only)
3. Interface Cards Slots
4. Fan and Alarm Card

### Back

1. Power Supply Card with Connectors
2. CPU Card Rear Panel
3. Interface Card Rear Connector Panel Slots
4. Interface module rear connector panel slots

## Back



## Order Codes

ECLIPSEHX-DELTALITE16P

ECLIPSEHX-DELTALITE32P

ECLIPSEHX-DELTALITEUG