MVX-A16-HX Interface Card

For Eclipse HX Matrix Systems

Linking People Together

MVX-A16-HX Interface Card

Key Features and Benefits

- 16-port Interface Card
- Enables up to 16 additional analog audio interface ports
- For use with Eclipse HX Frames: HX-Delta, HX-Delta Lite, HX-Median and HX-Omega
- Up to 15 cards supported per Eclipse HX card frame
- Delta-Lite: Up to 2 cards
- Delta: Up to 4 cards
- Median: Up to 7 cards
- Omega: Up to 15 cards
- Provides balanced, line-level, 4-wire analog audio and RS422 interfacing
- Configured by Eclipse HX Configuration Software (EHX)

Interface cards are 6RU frame cards for Eclipse® HX system frames that establish intelligent connections for high density, high performance and high reliability.

Description

The MVX-A16-HX card provides Eclipse Matrix frames with an analog interface for connection to any analog device. With 16 RJ45 ports on the back plane of the card, it serves as the primary interface for analog connection to Clear-Com panels.

The MVX-A16-HX analog interface card communicates with Clear-Com panels or other analog audio equipment over a balanced, line-level analog audio connection and RS422 serial for control. The card connects up to 16 audio devices (such as user panels, interfaces, or 4-wire audio equipment) to the central matrix. Each analog connection to the card enables distribution of that audio to any other device within the Eclipse system.

The MVX-A16-HX supports the following Clear-Com equipment: Panels (V-Series™, V-Series Iris™, I-stations & ICS1016 & ICS-1008), LQ® (LQ SIP for telephone connections), TEL-14, CCI-22 and FOR-22.

LQ Series

In Eclipse Matrix frames where cards used do not provide IP capability, the LQ Series of IP interface devices can be utilized to give a frame IP interoperability. The LQ device is connected to the MVX card with a standard CAT-5 cable with RJ45 connectors. Analog audio is carried from the frame to the LQ device and converted into PCM audio using the G722 codec. The LQ then sends the audio over an IP network to the desired endpoint. Audio from the endpoint is similarly converted back to analog for frame communication via the MVX card. IP endpoints can be anything from SIP telephones to IP based key panels to intercom mobile applications.

Clear-Com® AN HME COMPANY

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Technical Specifications

Audio
Audio Interface: 16, bi-directional
Input Format: Balanced
Output Format: Balanced
Ground Isolation: None; expected at User Panel/Station

Analog Port Card Outputs
Level: 0dBu nominal / 18dBu max
Impedance: 100Ω balanced
Frequency Response: 30Hz–22kHz ± 3dB
Distortion: <0.05 %, @ 0dBu, 300Hz to 10kHz;
<0.1 %, @ 0dBu, 100Hz to 20kHz

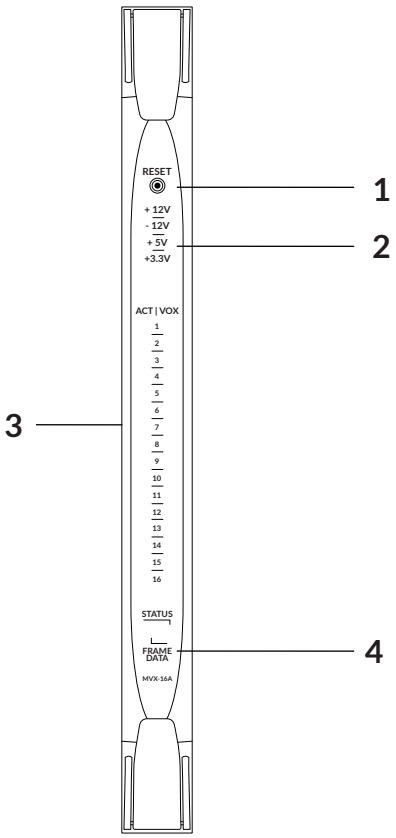
Analog Port Card Inputs
Level: 0dBv nominal / 18dBu max
Impedance (MK1): 600Ω balanced
Impedance (MK2): >10KΩ balanced
Frequency Response: 30Hz - 22kHz ± 3dB
Distortion: <0.05 %, @ 0dBu, 300Hz to 10kHz;
<0.1 %, @ 0dBu, 100Hz to 20kHz

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

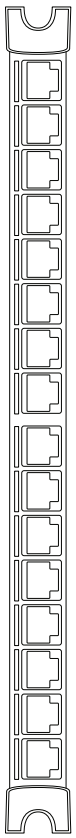
Environmental
Operating Temperature: +32°F to +113°F (0°C to +45°C)
Storage Temperature: -22°F to +158°F (-30°C to +70°C)
Humidity: 90%, non-condensing

Dimensions
Height
6RU (vertically in Eclipse HX-Median and Omega frames;
horizontally in Eclipse HX-Delta frames)
Depth
Front Panel: 11.8in (300mm)
Rear Panel: 2.28in (58mm)

MVX-A16-HX Front



MVX-A16-HX Back



Legend

Front
1. Reset button
2. Power supply lights
3. Active and VOX lights
4. Frame data light

Order Code

MVX-A16-HX

Rev: Nov/2020