



Host Control Interface (HCI)

Eclipse HX Digital Matrix Solutions

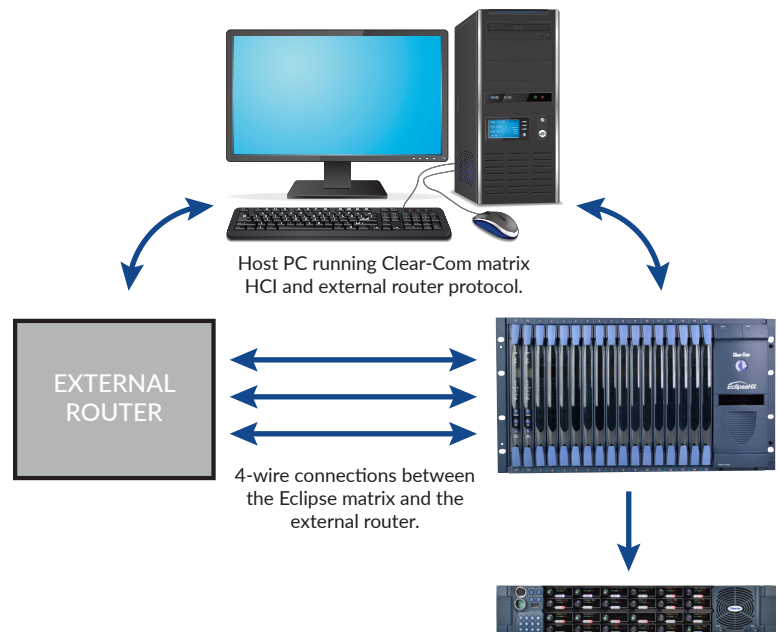
Key Features and Benefits

- Mature and feature rich open API protocol
- HCI Drivers available from popular Automation and Broadcast Control Systems (BCS)
- Integration with AV Management & Control Systems
- Rich feature set and UI control enable hybrid control systems
- Intercom panel keysets (control surface) can be utilized under direct control of the 3rd party Host PC to control other devices by acting a control panel
- Poll the system for status messages/events to create custom monitoring dashboards
- Developers can use their preferred tools and platform to create their own bespoke applications
- Custom integration project support unlimited use cases

Eclipse® HX matrices include the option to have third-party control systems to make changes and receive status information within intercom systems.

Description

Eclipse HX Host Control Interface (HCI) is an open API protocol, which allows a third-party computer or automation system to control an Eclipse HX matrix. The HCI protocol is platform agnostic allowing applications to be developed in a wide variety of programming languages (C#, C, Python) and on a range of operating systems (Linux, MS Window, iOS). The protocol provides a rich set of commands to allow the external system to seamlessly work with intercom systems, use the intercom control surfaces for any external control application and report on system status and health.



The Host PC receives routing information from the external router and translates this into the appropriate matrix HCI commands that are required to follow the external router actions. Similarly, the Host PC receives routing information from the Eclipse matrix and translates this into the appropriate external router commands. All request messages from the Host have a corresponding reply message from the matrix.

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Crosspoints

The Host may request for crosspoints to be made or unmade (deleted), or for crosspoints to be inhibited. The Host may also request the status of a particular crosspoint (a list of panels and 4-wires that are talking or listening to that port). The Host can adjust the crosspoint levels between ports, in addition to adjusting the global input / output gain of a port.

Control Action (Virtual Key)

The Host may request for a control action (virtual GPI or GPO) to be turned ON or OFF. The Host can also request for status of a control.

Partylines

The Host may request for 4-wires to be added to or deleted from a partyline as a talker or a listener. The Host may request for the status of a partyline (a list of panels and 4-wires that are members of that partyline). The matrix automatically sends a message when a panel or 4-wire joins or leaves a conference. The matrix can list all the members of a conference in terms of talkers and listeners.

Alias

The Host can assign keys onto panels (or beltacks), as well as overwrite the EHX default label with a new Alias name.

IFBs

- The host may assign new sources, destinations to IFBs
- The host may change the interrupt (dim level) of an IFB
- The host may change the priority level of any talker on the IFB

The matrix automatically sends a message indicating when an IFB has been changed or when somebody is talking over an IFB.

Trunk Lines

- The host may request for a trunk route to be made between two networked matrices
- The host would specify the local panel and also the remote matrix and panel or 4-wire that it wishes to make a route to

The matrix automatically sends a message indicating indicating when a trunk call has been made.

System Messages

- The matrix can produce textual diagnostic & status messages
- The Host may request system status messages to be sent
- The Host may request the CPU firmware version
- The Host may remotely reset the matrix

The matrix automatically sends a warning message when a matrix card or a control panel has gone online or offline.

HCI Customers Receive

- Reference manual
- An archive of C++ library commands
- NetSim (an Engineering test tool for exercising the matrix system using HCI)
- Technical support (either one day at the factory with an engineer or 8 hours telephone support)

HCI Licenses: Full Automation or Basic Controls

The HCI License is available in 2 versions. HCI-E-HX provides full automation API for advanced control integration of Eclipse into 3rd party systems. Allowing the 3rd party to configure and control an Eclipse system at the touch of a button or on a schedule. HCI-LIVE-HX is a subset of HCI-E-HX providing the API of Eclipse Controls and Crosspoints enabling simple on/off integration over networks (virtual GPIO). Allowing 3rd party control integration of paging, routing, tallies via networks.

Order Codes

HCI-E-HX: EHX License-HCI, (1) matrix for full automation API

HCI-LIVE-HX: EHX License-HCI Live, (1) matrix for Controls & Crosspoint API

HCI-E-SITE-HX: EHX License-HCI, site license for full automation API on 2-10 Matrix linked system

SVC-REM6-AE: Service-3 sessions (2-hours) of remote PC-based assistance