

# Product Brief

## Mercury Interface Unit (MIU)

700-25-02



### Description



The Mercury Interface Unit (MIU) is a multi-purpose device that provides multichannel real-time voice communications, radio interoperability, conventional and VOIP telephony, and other capabilities over terrestrial and/or satellite networks. It can also be used for single-site or stand-alone operations.

Each MIU can be equipped with any combination of up to four (4) expansion or option boards providing up to 32 physical ports.

### Key Features

- Up to 32 physical ports for hardware panels, telephony (FXO, FXS and E&M), radio interoperability, and analog audio communications
- Up to 32 simultaneous IP audio channels
- Provides VOIP (SIP) interoperability as well as Trilogy proprietary protocols designed for fast connections and low latency
- Enables Radio Interoperability and Radio over IP
- Compatible with conventional telephony devices
- Ideal for extending all types of voice communications over IP

## Create an All-In-One IP Communications Platform

A Mercury Interface Unit (MIU) provides communications capability between any of the devices shown below:



Intercom Panels



VOIP (SIP) servers and devices located anywhere on the network



Radios and Telephones of All Types



Other Mercury hosts and connected devices located anywhere on the network



**Use any combination of devices, anywhere on your network.**

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### Specifications

<b>Environmental</b>	<b>Power</b>	Nominal 100-264 VAC. 47-63Hz 125 VA fully equipped Internal Fuse - 2A (F) 250V IEC mains connector with retainer
	<b>Dimensions (WxDxH)</b>	370mm (14.5") x 483mm (19") x 88.9mm (3.5") or 2U
	<b>Weight</b>	6kg fully loaded (13.5lbs)
	<b>Operating Temp</b>	0 - 50°C
	<b>Humidity</b>	0-90% Relative Humidity Non Condensing
	<b>Shock</b>	800g/1mS
	<b>Vibration</b>	5.0g (22 - 500Hz)
<b>I/O</b>	<b>USB Ports</b>	1 x Front (1 unit load 100mA), 1 x Rear (5 unit loads 500mA)
	<b>PS2 Ports</b>	2 (keyboard and mouse)
	<b>SVGA Port</b>	1 rear (for monitor)
	<b>Ethernet - Normal Mode</b>	1 x RJ45 - combined voice and data traffic via internal switch
	<b>Ethernet - Special Mode</b>	2 x RJ45 - independent ports for voice and data traffic
	<b>Auxillary Audio</b>	Mic in, Headphone out via 3.5mm jack (front) Aux In, Aux Out via 3.5mm jack (rear)
<b>Regulatory Compliance</b>	<b>Radiated and Conducted Emissions</b>	FCC Part 15, Sub part B - EN61000-6-1
	<b>Safety</b>	CSA 60950-1-03; UL 60950-1, IEC 60950
<b>Ordering Information</b>	700-25-02	Includes Mercury Interface Unit, Power Supply, Standard I/O and VOIP (SIP) Interoperability Feature Set

Each Mercury Interface Unit has four available expansion slots. The following options consume one of the four slots:

- Audio Expansion Boards - Eight (8) Ports Each
- Telephone Expansion Boards (FXO, FXS or E&M) - Four (4) Ports Each
- Radio Interface Board (RIB) - Eight (8) Ports Each

In addition, several zero form-factor options can be added:

- GPIO Expansion
- Redundant Power Supply
- Solid State Drive
- DISA Gold Build-Complaint Image Analysis and Load



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