

## 40-922

### 8 Slot PXI Mainframe

- High Performance 8 Slot PXI/cPCI Backplane
- 3 Slot PXI System Controller Compatible
- 350W Industrial Grade Power Supply
- Compact Benchtop Footprint
- Integrated Carrying Handles
- Low Profile 4U Rugged Design
- Remote Chassis Monitoring System
- Power, Temperature and Fan Monitoring LEDs
- Low Audible Operating Noise
- Optional Rack Mounting Kit
- RoHS Compliant
- 3 Year Warranty



Pickering Interface 40-922 PXI Chassis is a fully compliant 8 slot PXI chassis that can accept any 3U PXI or cPCI module. The chassis is ideal for bench top use or for use in a rack system.

The 40-922 includes all the features and performance required by the PXI standard and supports a control interface or embedded controller and up to 7 additional 3U peripheral modules. The control interface can be provided by a Pickering's 41-921 PCI to PXI interface kit, allowing the chassis to be controlled from a PC.

The chassis is fitted with a 350W industrial grade power supply mounted at the rear of the unit with sufficient capacity to support PXI modules with very high current demands.

An intelligent chassis management system monitors the power supply voltage, internal temperature and the cooling fan speed. The current condition of the chassis is displayed on front panel status LEDs and can also be monitored remotely via an RS232 port.

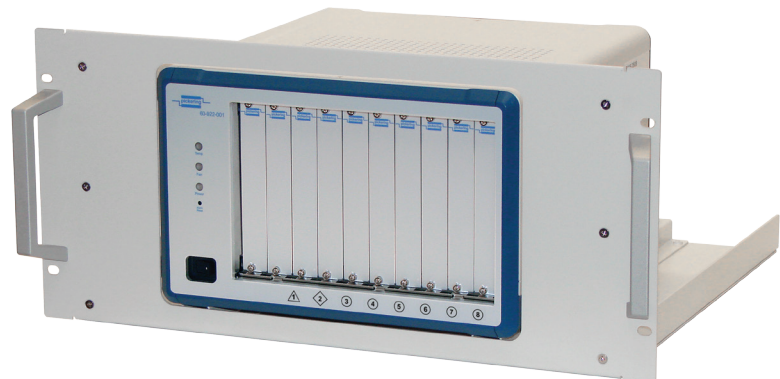
Two 60cfm fans insure maximum PXI module cooling and an efficient direct convection design allows the chassis to operate over an extended ambient temperature range of 0°C to +55°C.

The low acoustic emissions make the chassis ideal for applications such as office or laboratory environments where noise levels are critical. The sound pressure level varies between 41.6dB and 47.3dB dependant upon the controlled fan speed which automatically responds to the internal chassis temperature.

The 40-922 chassis can also be supplied with a mounting frame to allow installation into a standard 19" rack. The frame increases the overall height to 5U and allows space for cooling air to be drawn into the underside and expelled from the top of the chassis.

The system slot is compatible with any PC-PXI bridge and any 3 slot wide PXI controller.

40-922 PXI chassis fitted with the 63-102-001 optional rack mounting frame. This allows installation in a 19 inch rack and allows space at the top and bottom of the chassis for the correct flow of cooling air.



## Backplane

- Number of Slots: 1 system slot, 7 peripheral slots
- System Slot: Accepts any 3 slot or narrower PXI compatible controller or interface. Pickering Interfaces recommends the 41-921 interface for remotely controlled configurations. Particularly, Adlink controllers are recommended for applications requiring embedded control.
- Bus Design: Incorporates all the features of the PXI specification Rev 2.2. The backplane is 64-bit with PXI triggers, Star Trigger, Local Bus & internal PXI clock.

## Cooling

- Airflow: Bottom intake, rear exhaust
- Per-slot Cooling Capacity: 25W at 55°C ambient  
40W at 40°C ambient
- Fans: 2 off 60cfm fans with filters

## Acoustic Emissions

- Sound Pressure Level(dBA): Minimum fan speed: 41.6dB  
Maximum fan speed: 47.3dB
- Sound Power (dBA): Minimum fan speed: 51.9dB  
Maximum fan speed: 55.5dB

## Power Supply

- Input Voltage Range: 90 - 264VAC
- Input Voltage Frequency: 47 to 63Hz
- Input Current Rating: 8A 115VAC or 4A 230VAC
- Supplied with a 350W DC output power supply with the following capacity:

DC Output	Max Current
+3.3V	20A
+5V	35A
+12V	18A
-12V	2A

Note: Combined 3.3V and 5V current, 35A Maximum.

## Chassis Monitoring

- Front panel LEDs: Power supply status  
Cooling fan status  
Internal temperature status
- Remote Interface: RS232 port on rear panel

## Physical Parameters

- Cardcage: Front loading 3U x 160mm, 8slots,  
IEEE 1101.1, 1101.10 and 1101.11
- Dimensions: Width: 280mm (11.02")  
Height: 177mm (6.97")  
Depth: 303mm (11.93")
- Weight: 5.9kg (13 lbs.)

## Safety, CE & RoHS Compliance

All modules are fully CE compliant and meet applicable EU directives: Low-voltage safety EN61010-1:2001, EMC Immunity EN61000-6-1:2001, Emissions EN55011:1998. The 40-922 Chassis also complies with the European Restriction of Hazardous Substances directive (RoHS).

## Product Order Codes

8 Slot, 3U, PXI Chassis	<b>40-922-001</b>
Optional 19 inch rack mounting hardware	<b>63-102-001</b>
PCI to PXI Control Interface Kit	<b>41-921-001-KIT</b>

For full details of our fast PCI to PXI control Interface see the 41-921 data sheet.

## Mating Connectors & Cabling

Please refer to the Pickering Interfaces "Connection Solutions" catalog for a full list of connector/cabling options, including drawings, photos and specifications. This is available in either print or as a download.

Alternatively our web site has dynamically linked connector/cabling options, including pricing, for all Pickering PXI modules.



## Latest Details

Please refer to our Web Site for Latest Product Details.  
[www.pickeringtest.com](http://www.pickeringtest.com)

## Operating/Storage Conditions

### Operating Conditions (operating with specified airflow)

- Operating Temperature: 0°C to +55°C  
Humidity: 10% to 95% non-condensing

### Storage and Transport Conditions

- Storage Temperature: -20°C to +70°C  
Humidity: 10% to 90% non-condensing