

40-923A 19 Slot PXI Mainframe

- High Performance 19 Slot PXI/cPCI Backplane
- 3 Slot PXI System Controller Compatible
- 600W 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 40-923A PXI Chassis is a fully compliant 19 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 40-923A includes all the features and performance required by the PXI standard and supports a control interface or embedded controller and up to 18 additional 3U peripheral modules. The control interface can be provided by a Pickering's 41-924 PCIe to PXI interface kit, allowing the chassis to be controlled from a PC.

The chassis is fitted with a 600W industrial grade power supply mounted at the rear of the unit with sufficient capacity to support PXI modules with very high current demands.

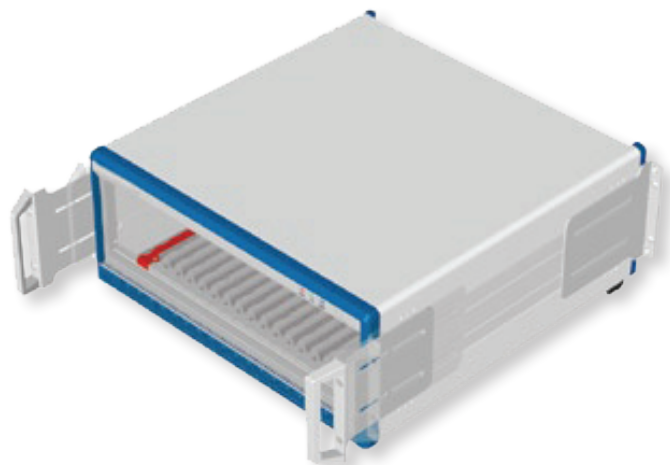
An intelligent chassis management system monitors the power supply voltage, internal temperature and the cooling fan speed. The current condition of the chassis is displayed on front panel status LEDs and can also be monitored remotely via an RS232 port

Three 120mm 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 40-923A chassis can also be supplied with mounting brackets for installation into a standard 19" rack. These brackets are adjustable allowing the chassis to be recessed by up to 10cm, allowing clearance for connector blocks and module wiring.

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

40-923A PXI chassis with 63-103-001 optional rack mounting hardware fitted allowing the front of the chassis to be recessed by up to 10cm in the host rack



Backplane

- Number of Slots: 1 system slot, 18 peripheral slots.
- System Slot: Accepts any 3 slot or narrower PXI compatible controller or interface. Pickering Interfaces recommends the 41-924 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: 3 off 185.9cfm fans

Power Supply

- Input Voltage Range: 90 - 264Vac full range
Input Voltage Frequency: 47 to 63Hz

Supplied with a 600W DC output power supply with the following capacity:

DC Output	Max Current
+3.3V	42A
+5V	45A
+12V	15A
-12V	4.75A

Chassis Monitoring

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

Frequency Standard

- Source: Either 10MHz PXI compliant internal standard or external 10MHz standard applied to rear panel BNC connector.

Physical Parameters

- Cardcage: Front loading 3U x 160mm, 19slots, IEEE 1101.1, 1101.10 and 1101.11
- Dimensions: Width: 444mm (17.48")
Height: 178mm (7.01")
Depth: 455mm (17.91")
- Weight: 13.4kg (29.5 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 40-923 Chassis also complies with the European Restriction of Hazardous Substances directive (RoHS).

Product Order Codes

19 Slot, 3U, PXI Chassis	40-923A-001
Optional 19 inch rack mounting hardware	63-103-001
PCIe to PXI Control Interface Kit	41-924-001-KIT

For full details of our fast PCIe to PXI control Interface see the 41-924 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

Operating/Storage Conditions

Operating Conditions (operating with specified airflow)

- Operating Temperature: 0°C to +55°C
Humidity: 10% to 90% non-condensing

Storage and Transport Conditions

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