40-914
High Performance 14 Slot PXI Mainframe

- High Performance 14 Slot PXI/ cPCI Backplane
- Dual Modular Supplies
- Compact Benchtop Footprint
- Low Profile 4U Rugged Design
- Voltage Monitoring Included
- Power Supplies Hot Swap Capable
- Low Audible Operating Noise Versions Available
- 3 Year Warranty

Pickering Interfaces Model 40-914 PXI Chassis features the industry-standard, fourteen-slot PXI/cPCI backplane integrated into a 3U cardcage.

The 41-914 includes all the features and performance required by the PXI standard and supports a control interface or embedded controller and up to 13 additional 3U peripheral modules.

The 40-914 chassis can be controlled from a PC using Pickering Interfaces PCI to PXI Control Interface 41-921.

The 40-914 chassis is provided with two removable modular power supplies on the left of the chassis. Power supply voltage and fault monitoring is through front panel LEDs. Replacement power supply modules are available from Pickering as spare parts.

Four 56cfm fans (total 224cfm) ensure maximum cooling with minimal noise. Quick filter media and fan maintanence is provided by a removable fan tray.

For applications such as office or laboratory environments where acoustic noise levels are critical, the chassis can be supplied with either lower speed fans or with fans whose speed can be set to full, medium or slow with easily accessed internal switches.

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Backplane

Bus Design: Incorporates all the features of the PXI specification. The backplane is 64-bit with PXI triggers, Star Trigger, Local Bus & internal PXI clock.

Power Supply

AC input: 90 - 264VAC, universal input, Line Fuse protected.

Cooling: Convection, cardcage with forced air.

Supplied with two 175W power supplies (Type 59102) with the following total capacity:

DC Outputs	Dual Supplies
+3.3V	50A
+5V	50A
+12V	6A
-12V	2A

Note: Combined 3.3V and 5V current, 54Amps Maximum.

Power Factor: 0.99 (typical).

Efficiency: 70% (typical).

Cooling

Airflow: Bottom intake, side/rear exhaust, pressurized cardcage.

Fans: (4) 56cfm fans (224cfm total).

Acoustic Noise: 56.5 - 58.2dB @ 1meter (A weighting)

Air Filter: Bottom accessible, washable media.

Low Acoustic Noise Versions:

Available with selectable fan speed (3 speeds set by internal switches).

Available with low noise fans.

Operating/Storage Conditions

Operating Conditions (operating with specified airflow)

Operating Temperature: 0°C to +55°C
Humidity: Up to 95% non-condensing
Altitude: 5000m

Storage and Transport Conditions

Storage Temperature: -20°C to +70°C
Humidity: Up to 95% non-condensing
Altitude: 15000m

Monitoring

Interface: Front panel LED indicators.

Functions: Power supply DC output voltage verification (90% nominal).

Indicators: Green LEDs for Power OK, Red LED for Fault.

Physical Parameters

Cardcage: Front loading 3U x 160mm, flush, 14 slots, IEEE 1101.1, 1101.10 and 1101.11

Dimensions: 257.8mm (10.53"D)
442.2mm (17.41"W)
with out rack mount flanges.

482.6mm (19.00"W)
with rack mount flanges.

177mm (6.97"H)

Weight: 8.5kg (18.6 lbs.),

Safety & CE 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.

Product Order Codes

14 Slot, 3U, 350W, PXI Chassis	**40-914-001**
Chassis with 3 speed fans	**40-914-101**
Chassis with low noise fans	**40-914-201**
PCI to PXI Control Interface Kit	**41-921-001-KIT**

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

Spare Parts

Replacement Power Supply Module	**44-910-003**

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