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# 40-930
# High Performance 18 SLOT PXI Mainframe



- HIGH - CAPACITY 18 SLOT PXI / cPCI BACKPLANE
- DUAL PXI - TO - PXI BRIDGES, USER CONFIGURABLE
- LOW - PROFILE 4U RUGGED DESIGN
- 600 WATT UNIVERSAL POWER SUPPLY
- VOLTAGE AND FAN MONITORING INCLUDED
- EASILY CONVERTIBLE FOR RACK OR BENCH USE
- MULTI - POINT TEMPERATURE CONTROLLED FANS
- (3) 130 CFM, HIGH PRESSURE TUBE - AXIAL FANS

Pickering Interfaces Model 40-930 PXI Chassis is a rack-mount or bench-top mainframe designed primarly as a PXI instrumentation platform. Ideally suited for test and measurement PXI applicatiions requiring a large number of instruments in a single chassis. The 18 slot 3U backplane supports standard 64 bit PXI and cPCI boards

A 600 watt power supply assures abundent power for the most demanding PXI system applications. PXI to PXI bridges insure integration between bus segments allowing configuration of PXI trigger signals by the user. Monitoring is provided for voltage and fan speed. Multi-point temperature controlled fans insure maximum cooling with minimal noise.




Advanced Monitoring Features

## Backplane

| | |
|---|---|
| Bus Design: | Incorporating all features defined by the PXI spec. The backplane is a 64 bit, 12 layer stripline construction. |

## Power Supply

| | |
|---|---|
| General | 600W, AC input with PFC |
| Cooling | Dual internal DC fans |
| Total Output | 600 Watt, maximum |
| AC Input | 90 - 264VAC, universal input |
| AC Current | 13A at 90VAC; 5A at 230VAC |
| Frequency | 47 - 440 Hz |
| DC Outputs | +5V / 60A,<br>+3.3V / 60A,<br>+12V / 10A,<br>-12V / 4A |

## Cooling

| | |
|---|---|
| Airflow | Rear intake, side exhaust, pressurized; cardcage with independently cooled power supply |
| Fans | (3) 130cfm, high pressure tube-axial fans ( 390cfm total ) |
| Air Filter | Rear accessible, washable media |
| Sensors | All fans are temperature controlled using three temperature sensors positioned above the cardcage.<br>Front panel override switch provides full speed fan operation regardless of temperature. |

## Monitoring

| | |
|---|---|
| Interface | Front panel LED indicators |
| Functions | Power supply DC output voltage verification (90%nominal) Fan speed low - tach indicator for <50% rated fan RPM or locked rotor on one of three fans<br>Fan Speed switch sets speed to full regardless of temperature. |

## Monitoring cont.

| | |
|---|---|
| Indicators | Green LED's for<br>+3.3VDC,<br>+5VDC,<br>+12VDC,<br>-12VDC<br>Fan 1,2 and 3: associated LED on for good, off for fail |

## Enviromental

| | |
|---|---|
| Temperature | 0 - 50ºC operating with specified airflow<br>-20 - 70ºC non-operating |

## Physical Parameters

| | |
|---|---|
| Cardcage | Front loading 3U x 160mm, flush, 21 slots, IEEE 1101.10 |
| Dimensions | 19.65"D (499 mm)<br>17.25"W (438 mm) w/o rack mount flanges<br>19.00"W (483 mm) with rack mount flanges<br>6.97"H (177 mm)<br>Weight: 26lbs. (11.80 kg) |

## Product Order Codes

| | |
|---|---|
| 18 Slot, 3U, 600W, PXI Chassis | **40-930-001** |
| 18 Slot, 3U, 600W, PXI Chassis, with MXI-3 Interface Kit (NI 777942-01) | **40-930-002** |
| 3U Brushed Aluminum Filler Panel | **41-942-003** |

### Mating Connectors

Please refer to System 10/20 Model List for a full breakdown of connector and cable types.

Custom cable assemblies made to order.

## Latest Details

Please refer to our Web Site for Latest Product Details.
www.pickeringswitch.com

Pickering Interfaces maintains a commitment to continuous product development, consequently we reserve the right to vary from the description given in this data sheet.
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