PXI Express System, 14579-040

BUILT FOR HIGH PERFORMANCE TEST AND MEASUREMENT APPLICATIONS

SCHROFF 18 SLOT PXI EXPRESS SYSTEM

The nVent SCHROFF PXI Express System provides sixteen hybrid-compatible slots and one timing slot for application flexibility. The chassis utilizes two PCI segments with a dedicated PCIe-to-PCI bridge module for the hybrid slots. The PXI specific high accuracy clocks and trigger signals are generated and controlled by an independent clock module attached to the rear side of the backplane. The system is specified for up to 55 °C operating conditions based on the robust cooling and proven mechanical design.





FEATURES AND BENEFITS

- **Innovative modular chassis architecture**
  Due to swappable function modules on backplane
- **Get your customized PXI Express systems**
  Economical & fast to market thanks to the modular chassis concept
- **Reliable system design**
  From decades of experience in robust and unique system design for industry, test & measurement

TECHNICAL DETAILS

- PCIe Gen 3, 18-slots full hybrid, 3U PXI Express Chassis
- Powerful cooling concept with low fan noise
- Ultra-high performance Gen 3 PCIe switching with a default four-link (4x4) system slot
- High data bandwidth (max. 16 GB/s system and 4GB/s slot-to-slot)
- Rear panel external 10 MHz clock inputs/outputs

SYSTEM SPECIFICATION

System Cooling

- Fans: 3x 120mm fans (129.94 CFM each)
  - Cooling capacity: 50 W per slot @ 15K temperature increase

AC Feed

- Voltage range: 100 - 240 VAC at 50/60 Hz
- In-line filter with 10 A fuse and power switch

DC Power Supply

- Maximum available power is 960 W

Input voltage nominal	100 – 240 VAC
Mains Frequency	50 / 60 Hz
Power (max.)	1200 W (Fans powered by individual 12 V PSU)

Output	Voltage	Current	Load Regulation	Voltage Ripple
	+3.3 V	72 A	±2 %	±50 mV
	+5 V	36 A	±2 %	±50 mV
	+5 V Aux	2A	-	±50 mV
	+12 V	40 A	±2 %	±100 mV
	-12 V	5A	±2 %	±100 mV

SyStem Specification

Operating Environment

- Ambient temperature 0 °C to 55 °C (32 °F to 122 °F)
- Rel. humidity 20% to 80%, non-condensing

Storage Environment

- Ambient temperature -20 °C to 70 °C (4 °F to 158 °F)
- Rel. humidity 10% to 90%, non-condensing

Emissions Compliance and Safety

Designed in accordance to:

- FCC/ICES-003 (USA / CA) Class A – EN61326-1
- CE (Europe) Class A – EN61326-1
- CE/LVD (Europe) – EN 61010-1

Physical Dimensions

Hight (w/o feet)	177 mm (4 U)
Hight (with feet)	192 mm (4 U)
Width (with mounting brackets)	84 HP (19"/482,6 mm)
Depth (w/o handles)	355,25 mm
Weight	9,9 kg

System topology

- 1 System slot with three expansion slots
- 16 PXI Express Hybrid Slots, 1 Timing Slot

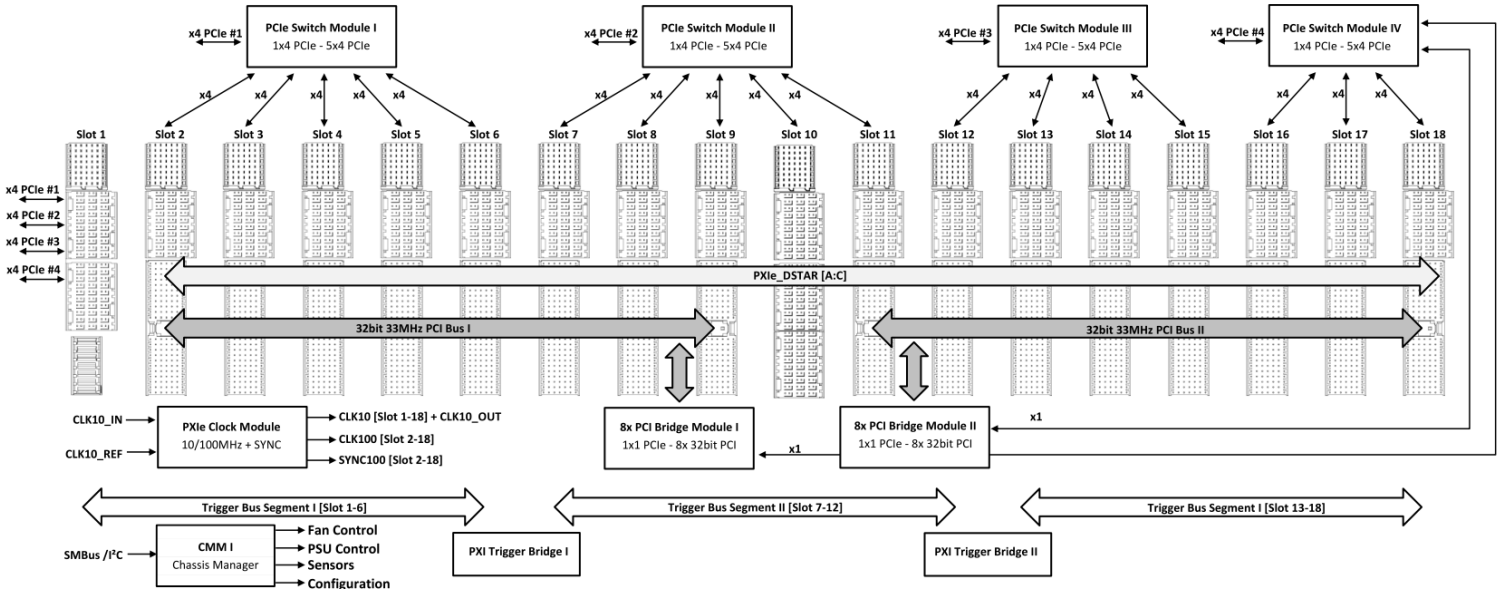
Bus Interface

- Four-link capacity PXI Express system slot
- Up to 16GB/s PCIe Gen3 system bandwidth
- Up to 4 GB/s peripheral bandwidth to each slot
- PXI-1 compatible with 32bit / 33MHz PCI bus

Rear Terminal

- External 10 MHz REF clock output via BNC connector
- Optional 10 MHz REF clock source via BNC connector
- M4 chassis ground screw

ORDER INFROMATION	ITEM NUMBER
SCHROFF 18 Slot PXI Express System	14579-040



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