

PXI Express System, 14579-042

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**
High availability and easy to maintain due to rear insertion (Fans, PSU, IO) and 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 (x8 x16) system slot
- High data bandwidth (max. 24 GB/s system and 8GB/s slot-to-slot)
- Rear panel external 10MHz clock inputs/outputs

SYSTEM SPECIFICATION

System Cooling

- Fans: 3x 120mm fans (210.34 CFM each)
- Cooling capacity: up to 80 W per slot @ 15K temperature increase

AC Feed

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

DC Power Supply

- Maximum available power is 1800 W
- load of combined system voltages correlate with maximum available power

Input voltage nominal	100 – 240 VAC
Mains Frequency	50 / 60 Hz
Power (max.)	2x 900 W (HotSwap & redundant)

Output	Voltage	Current	Load Regulation	Voltage Ripple
	+3.3 V	65 A	±2%	±50 mV
	+5 V	30A	±2%	±50 mV
	+5 V Aux	3A	-	±50 mV
	+12 V	125A	±2%	±100 mV
	-12 V	2 A	±2%	±100 mV

System Specification

Operating Environment

- Ambient temperature 0 °C to 55 °C (32 °F to 131 °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

Height (w/o feet) 177 mm (4 U)

Height (with feet) 192 mm (4 U)

Width (with mounting brackets) 84 HP(19"/482,6 mm)

Depth (w/o handles) 465,50 mm

Weight 12,0kg

System topology

- 1 System slot with three expansion slots
- 16 PXI Express Hybrid Slots @ x8 Gen3 , 1 Timing Slot

Bus Interface

- Two Link capacity PXI Express system slot
- Up to 24GB/s PCIe Gen3 system bandwidth
- Up to 8 GB/s peripheral bandwidth to each slot
- PXI-1 compatible with 32bit / 33MHz PCI bus

Front Terminal

- External 10 MHz REF clock output via SMA connector
- Optional 10 MHz REF clock source via SMA connector
- 4x Trigger in/ouput lines via SMA connector
none or 8x Trigger in/ouput lines possible upon request

Rear Terminal

- Up to 8 GB/s peripheral bandwidth to each slot
- M4 chassis ground screw

ORDER INFORMATION

ITEM NUMBER

SCHROFF 18 Slot PXI Express System 14579-042



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