

18 Slot PXIe System 24GB/s



SCHROFF

BUILT FOR HIGH PERFORMANCE TEST AND MEASUREMENT APPLICATIONS

SCHROFF 18 SLOT PXI EXPRESS SYSTEM

The nVent SCHROFF PXI Express System 14579-042 is built on a new hardware platform and provides sixteen hybrid-compatible slots plus a system timing slot for application flexibility. The chassis is capable of up to 100W cooling performance per slot and has a redundant hot-swappable dual-PSU solution. 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, 4U PXI Express Chassis
- Powerful cooling concept with low fan noise
- High performance Gen 3 PCIe switching with a default two-link (x8 x16) system slot
- High data bandwidth (max. 24 GB/s system & 8GB/s per slot)
- Rear panel external 10MHz clock inputs/outputs
- high cooling capacity up to 80W (100W *) per Slot

SYSTEM SPECIFICATION

System Cooling

- Fans: 3x 120mm fans (210.34 CFM each)
- Cooling capacity: up to 80W/100W *1 per slot @ 15K temperature increase
*1 with operating temperature 0 – 40°C

AC Feed

- Voltage range: 100- 240 VAC at 50/60 Hz
- Double AC Socket for both PSU for redundancy

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 VAux	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 -40 °C to 85 °C (-40 °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 B – EN61326-1
- CE (Europe) Class B – 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 Approx 12,0kg

System topology

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

Bus Interface

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

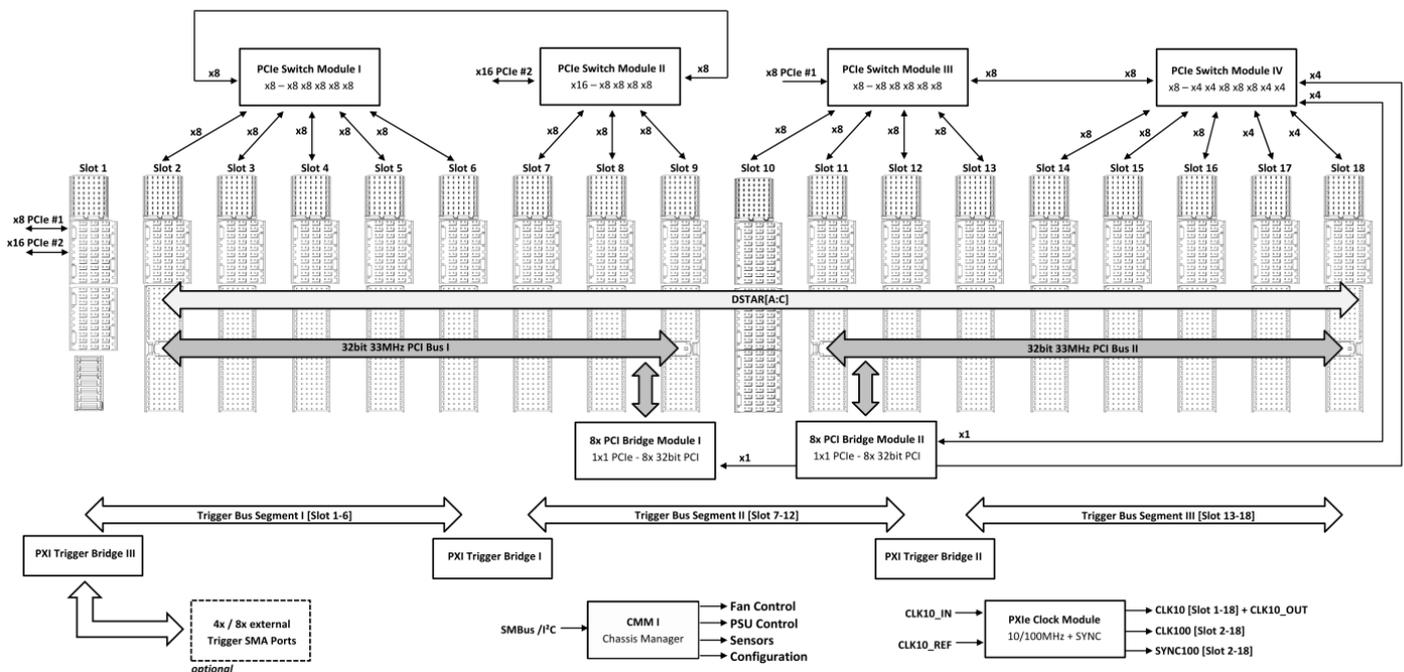
Front Terminal

- External 10MHz REF clock output via SMA connector
- 8 PXI-Trigger Lines configurable as In or Output.

Rear Terminal

- M4 chassis ground screw

ORDER INFORMATION	ITEM NUMBER
PXI-E 5380D-18H16T	14579-042



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