

# PXI Express System, 14579-043

## 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 2, 18-slots full hybrid, 3U PXI Express Chassis
- Powerful cooling concept with low fan noise
- Performant Gen 2 PCIe switching with a default four-link (4 x1) system slot
- Practical data bandwidth (max. 2 GB/s system and 0.5 GB/s slot-to-slot)
- Rear panel external 10MHz 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

<b>Input voltage nominal</b>	100 – 240 VAC
<b>Mains Frequency</b>	50 / 60 Hz
<b>Power (max.)</b>	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	5 A	±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

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) 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 2GB/s PCIe Gen2 system bandwidth
- Up to 0.5 GB/s peripheral bandwidth to each slot
- PXI-1 compatible with 32bit / 33MHz PCI bus

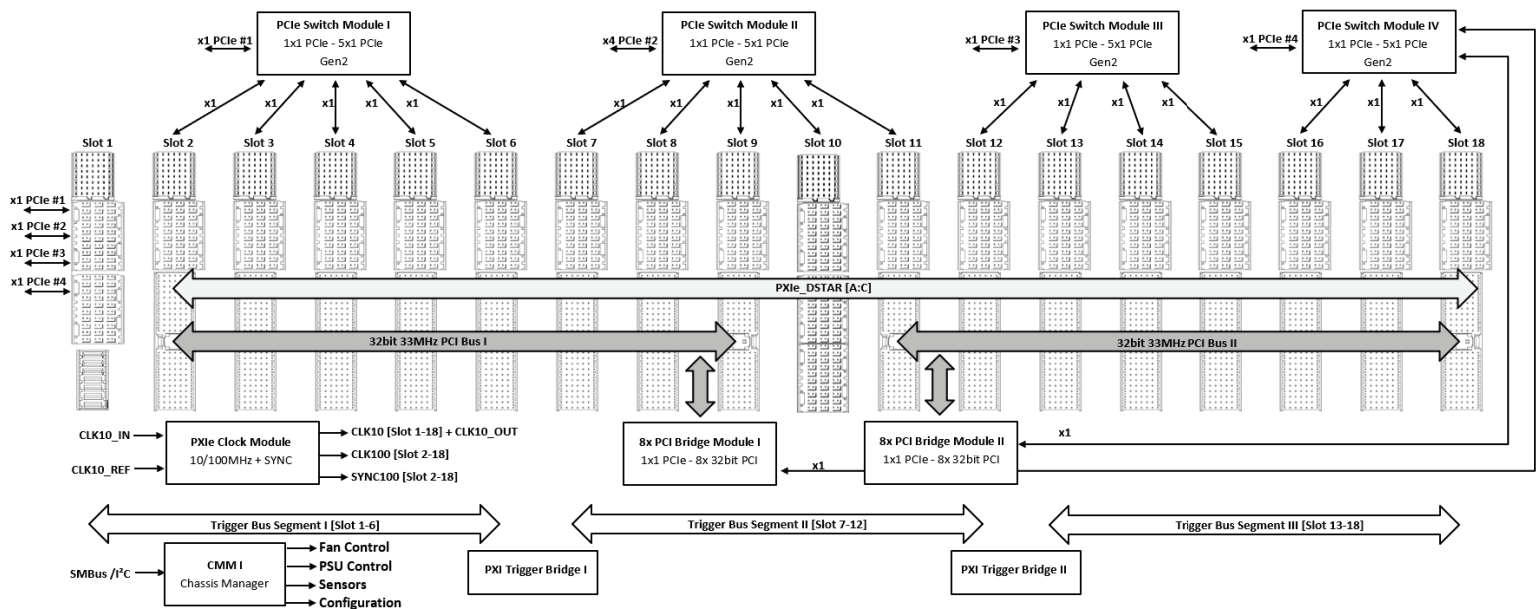
### Rear Terminal

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

### ORDER INFORMATION

### ITEM NUMBER

SCHROFF 18 Slot PXI Express System 14579-043



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