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 and 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

**SYSTEM SPECIFICATION**

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

<table>
<thead>
<tr>
<th>Input voltage nominal</th>
<th>100 – 240 VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mains Frequency</td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td>Power (max.)</td>
<td>1200 W (Fans powered by individual 12 V PSU)</td>
</tr>
</tbody>
</table>

**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 1200 W

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current</th>
<th>Load Regulation</th>
<th>Voltage Ripple</th>
</tr>
</thead>
<tbody>
<tr>
<td>+3.3 V</td>
<td>80 A</td>
<td>±2 %</td>
<td>±50 mV</td>
</tr>
<tr>
<td>+5 V</td>
<td>36 A</td>
<td>±2 %</td>
<td>±50 mV</td>
</tr>
<tr>
<td>+5 V Aux</td>
<td>2 A</td>
<td>-</td>
<td>±50 mV</td>
</tr>
<tr>
<td>+12 V</td>
<td>40 A</td>
<td>±2 %</td>
<td>±100 mV</td>
</tr>
<tr>
<td>-12 V</td>
<td>20 A</td>
<td>±2 %</td>
<td>±100 mV</td>
</tr>
</tbody>
</table>
Operating Environment
- Ambient temperature: 0 °C to 50 °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 – EN 61326-1
  - CE (Europe) Class A – EN 61326-1
  - CE/LVD (Europe) – EN 61010-1

Physical Dimensions
- Height (w/o feet): 177 mm (4 U)
- Height (w/ feet): 192 mm (4 U)
- Width (w/ 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
- Up to 4 GB/s peripheral bandwidth to each slot
- M4 chassis ground screw

Order Information
| Item Number | SCHROFF 18 Slot PXI Express System 14579-040 |

North America
- All locations
  - Tel: +1.800.525.4682

Europe
- Germany
  - Tel: +49.7082.794.0
- France
  - Tel: +33.88.90.64.90
- Poland
  - Tel: +48.22.209.98.35
- Lainate, Italy
  - Tel: +39.02.932.714.1

Asia Pacific
- P.R. China
  - Tel: +86.21.2412.6943
- Singapore
  - Tel: +65.6768.5800
- Japan
  - Tel: +81.45.476.0271

Middle East & India
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