RADX® TECHNOLOGIES, INC. | PRELIMINARY DATASHEET

Catalyst PXIe-USB

COTS, Single-Slot PXIe/CPCIe 4×20 Gbps USB-C Host Adapter

P/N: PXIe-USBC-4×20Gbps-HA | H126 MSRP: $3,999 | BAA / TAA Compliant



The **RADX Catalyst PXIe-USB** brings 4× USB 3.2 Gen 2×2 (20 Gbps) locking USB-C ports to PXIe and CPCIe systems via the HighPoint RU1444C controller. Designed for data-intensive T&M, EW, and data acquisition applications requiring high-bandwidth USB peripheral connectivity directly within the PXIe chassis. Each port operates independently at full bandwidth — ideal for simultaneously connecting multiple high-throughput USB peripherals such as RF receivers, SDRs, cameras, and data acquisition devices.

KEY FEATURES

- 4× independent locking USB-C ports
- 15–47 W per-port power delivery
- PCIe Gen 3 ×4 host interface
- Hardware-level port isolation
- No custom RADX drivers required
- Designed & assembled in the USA
- Long-life-cycle product
- USB 3.2 Gen 2×2 — up to 20 Gbps per port
- HighPoint RU1444C controller
- Single-slot PXIe / CPCIe form factor
- Windows 10/11 & Linux compatible
- BAA & TAA compliant
- GSA available via GSAMart by TestMart
- Compatible with NI, Keysight, Pickering chassis

ELECTRICAL & MECHANICAL SPECIFICATIONS

USB Standard	USB 3.2 Gen 2×2
Port Type	USB-C (locking)
Number of Ports	4 independent
Bandwidth per Port	20 Gbps (full duplex)
Power Delivery per Port	15 W – 47 W
Controller	HighPoint RU1444C
Host Interface	PCIe Gen 3 ×4
Form Factor	Single-slot PXIe / CPCIe
Port Isolation	Hardware-level (per port)
OS Support	Windows 10/11, Linux (select distros)
Driver Requirement	Standard OS USB host controller drivers

COMPLIANCE & CERTIFICATIONS

Buy American Act	BAA Compliant
Trade Agreements Act	TAA Compliant
Country of Assembly	United States of America
GSA Availability	Yes — via GSAMart by TestMart

APPLICATIONS

- Electronic Warfare (EW) & Signals Intelligence (SIGINT)
- Communications test & RF signal analysis
- Automated Test Equipment (ATE) & production test
- Data acquisition & high-speed data recording
- Multi-sensor fusion & imaging systems
- Software-Defined Radio (SDR) integration
- USB-C instrument connectivity in PXIe chassis

COMPATIBLE CHASSIS

- NI PXIe chassis (all standard slots)
- Keysight PXIe chassis
- Pickering PXIe chassis
- All standard PXIe / CPCIe chassis

ORDERING INFORMATION

Part Numbers & H126 MSRP

Part Number	Description	MSRP*
PXIe-USBC-4x20Gbps-HA	4× USB-C 20 Gbps, locking, single-slot PXIe	$3,999

*FOB San Jose. Excludes US import tariffs not in effect prior to RADX PO acceptance.

HIGHPOINT RU1444C CONTROLLER

Based on the proven HighPoint RU1444C USB-C Host Adapter controller, Catalyst PXIe-USB delivers reliable, high-bandwidth USB-C connectivity over a PCIe Gen 3 ×4 host interface. The RU1444C provides native USB 3.2 Gen 2×2 support with hardware-level port isolation, ensuring that a fault or bandwidth saturation on one port does not affect the others. USB-C devices connect and enumerate as if plugged directly into a host PC — fully compatible with existing application software and instrument drivers. No custom RADX drivers are required.

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