

TCA 5170B

1U Rackmount uCPE w/ Intel® Xeon® Skylake-D SoC Processor,
8 x GbE RJ45, 4 x 10GbE Fiber and 2 x LAN Modules



Main Features

- Intel® Xeon® D-2177NT SoC, BGA type
- 8 x DDR4-2666 RDIMM
- 1 x 2.5 SSD, 1 x M.2 2280
- 8 x GbE RJ45 & 4 x 10GbE fiber
- 2 x LAN modules
- Supports Intel® QAT
- Redundant power supply
- Intel® Select Solution for uCPE (CentOS)

Product Overview

The 1U rackmount uCPE TCA 5170B helps telecom companies build virtualization environments based on Intel® Xeon® D-2177NT processor (Skylake). Packing excellent multi-core CPU performance, accelerated data cryptography with Intel® QAT technology, and server-grade LAN functions into a small form factor, this 1U rackmount uCPE, an Intel® Select Solution for uCPE, creates virtualized environments for flexible VNF deployments in enterprises and branch offices.

Specifications

Main Board

- Intel® Xeon® Skylake-D SoC, BGA type
 - D-2177NT, 14 cores w/ QAT

Main Memory

- 8 x DDR4 2666 RDIMM sockets, up to 256GB

Storage Device

- 1 x 2.5" internal SSD/HDD bay
- 1 x M.2 2280 M key, supports SATA and PCIe x4 signal

Interface-External

- Button: Power & Reset
- LED: Power/HDD/2 x GPIO
- 1 x USB 3.0 port
- 1 x Micro USB type console
- 8 x GbE RJ45 ports
 - 2 x LAN bypass pairs
- 4 x 10GbE fiber ports
- 2 x PCIe x8 LAN module slots
- 1 x Management port
- 4 x SMA connectors for antennas
- 3 x Fixed smart fans
- 2 x Power inlets
- LCM module (optional)

Interface-Internal

- 1 x M.2 2230 E key
- 1 x M.2 3042 B key with SIM slot

Power

- 450W 1+1 redundant power supply

Dimensions and Weight

- Chassis dimension: 438 mm x 480 mm x 44 mm
- Package dimension: 632 mm x 567 mm x 203 mm
- Without packing: 8kg
- With packing: 12kg

Environment

- Operating temperature: 0°C~40°C
- Storage temperature: -20°C~80°C
- Relative humidity: 10%~90%, non-condensing

Certifications

- CE/FCC Class A

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Ordering Information

- **TCA 5170B (P/N: 10CA0517002X0)**
1U Intel® Xeon® D-2177NT w/ Intel® QAT, w/ 4 x 10GbE & 8 x 1GbE LAN ports, 2 LAN module slots

| Model | P/N Controller | Interface | Type | Port Number | Bypass/Segment | Expansion Slot | Location Slot |
|------------|----------------|------------|---------|-------------|----------------|----------------|---------------|
| NX 140F | 10S20140F01X0 | XL710-BM1 | PCIe x8 | 4 SFP+ | None | None | All Slot |
| NX 142F | 10S20142F01X0 | XL710-BM1 | PCIe x8 | 4 SFP+ | 2 bypass | None | All Slot |
| NX 142F-LR | 10S20142F03X0 | XL710-BM1 | PCIe x8 | 4 SFP+ | 2 bypass | None | All Slot |
| NX 120F | 10S20120F00X0 | X710-BM2 | PCIe x8 | 2 SFP+ | None | None | All Slot |
| NI 140F | 10SK000NI02X0 | i350AM4x1 | PCIe x8 | 4 SFP | None | None | All Slot |
| NI 180F | 10S10180F01X0 | i350AM4x2 | PCIe x8 | 8 SFP | None | None | All Slot |
| NI 142C | 10SK000NI03X0 | i350AM4x1 | PCIe x8 | 4 Copper | 2 bypass | None | All Slot |
| NI 180C | 10S10180C01X0 | i350AM4x2 | PCIe x8 | 8 Copper | None | None | All Slot |
| NI 184C | 10S10184C01X0 | i350AM4x2 | PCIe x8 | 8 Copper | 4 bypass | None | All Slot |
| NI 142F | 10S10142F01X0 | i350AM4x1 | PCIe x8 | 4 SFP | 2 bypass | None | All Slot |
| NI 121F | 10S10121F01X0 | i350AM2x1 | PCIe x8 | 2 SFP | 1 bypass | None | All Slot |
| NI 140C | 10S10140C01X0 | i350AM4x1 | PCIe x8 | 4 Copper | None | None | All Slot |
| NV 120F | 10S50120F01X0 | XXV710-AM2 | PCIe x8 | 2 SPF28 | None | None | All Slot |

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