TCA 5170C

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





Main Features

- Intel® Xeon® D-2146NT SoC, BGA type
- 8 x DDR4-2400 RDIMM
- 1 x 2.5 SSD, 1 x M.2 2280
- 8 x GbE RJ45 & 4 x 10GbE Fiber
- 2 x LAN modules
- Redundant power supply
- Intel® Select Solution for uCPE (Ubuntu)

Product Overview

The 1U rackmount uCPE TCA 5170C helps telecom companies build virtualization environments based on Intel® Xeon® D-2146NT processor (Skylake). Packing excellent multi-core CPU performance and server-grade LAN functions into a small form factor, this 1U rackmount uCPE creates virtualized environments for flexible VNF deployments in enterprises and branch offices.

Specifications

Main Board

- Intel® Xeon® Skylake-D SoC, BGA type
  - D-2146NT, 8 cores w/ QAT

Main Memory

- 8 x DDR4 2400 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
- 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

Ordering Information

- **TCA 5170C (P/N: 10CA0517003X0)**
  1U Intel® Xeon® D-2146NT 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

We reserve the right to change specifications and product descriptions at any time without prior notice.