TCA 1166 (ODM Only)

1U Cell Site Router w/ Intel Atom® Processor C3000, 8 x 1GbE SFP and 6 x 10GbE SFP+ Ports

| Switch | SyncE | PTP | GPS |

Main Features

- Intel Atom® C3000 processor series SoC, BGA type
- 1 x SO-DIMM DDR4 2400 8GB ECC memory installed
- 1 x M.2 2242 Key M slot
- Redundant 1 + 1 DC input (-36~-72V)
- 1 x RJ45 port for TOD & 1PPS
- 1 x RJ45 port for BITS
- 8 x 1G SFP with PTP & SyncE
- 6 x 10G SFP+ with PTP & SyncE
- Supports GNSS module (optional)

Product Overview

NEXCOM's TCA 1166 is a 1U cell site gateway, it aggregates data traffic from multiple Edge devices and transports it to the core network. TCA 1166 provides PTP (IEEE 1588v2) and SyncE features to meet 5G applications. It integrates high-speed and port density, with fiber, copper, and other network ports in a compact design, while connecting to GNSS to receive accurate timing data, improving network efficiency.

Specifications

Specification
- Intel Atom® C3308 processor SoC, BGA type, 2 cores

Main Memory
- 1 x SO-DIMM DDR4 2400 8GB ECC memory module installed, 8GB

Storage
- 1 x M.2 2242 Key M slot (SATA interface)

Interface External
- 4 LEDs: PWR/FAN/Sync/GPS
- 1 x SW programmable button
- 8 x 1GbE SFP with PTP & SyncE
- 6 x 10GbE SFP+ with PTP & SyncE
- 1 x RJ45 for TOD & 1PPS
- 1 x RJ45 for BITS
- 1 x RJ45 console port
- 2 x USB 3.0 ports
- 1 x RJ45 MGMT port
- 2 x 1 micro BNC for 1 PPS in/out
- 2 x 1 micro BNC for 10MHz in/out
- 1 x SMA for GNSS antenna (optional)
- 1 x Ground screw

Interface internal
- 1 x M.2 2242 Key M slot (SATA interface)
- 1 x SO-DIMM socket for optional BMC module
- 2 x 5-pin header for optional GNSS module

Power
- Redundant 1 + 1 DC input (-36~-72V), more than 150W per power supply

Dimension and Weight
- Chassis dimension (mm): 438 x 240 x 44 (W x D x H)
- Package dimension (mm): TBD
- Without package: TBD
- With package: TBD

Environment
- Operating temperature: -40°C~70°C
- Storage temperature: -40°C~70°C
- Relative humidity: 0%~95% non-condensing

Certification
- CE/FCC class A
- LVD

Ordering Information

Barebone
- **TCA 1166 (P/N: 10CA0116600X0)**
  Intel Atom® processor C3308, BGA type 2 cores, 1 x SO-DIMM DDR4 2400 8GB ECC memory , 8 x 1GbE SFP and 6 x 10GbE SFP+ ports with PTP & SyncE

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Last update: 06/17/2023