

APTNS-33161

Mainstream Network System

1U Rack-mount single 10th Generation Intel® Core™ processor (Comet Lake S) networking System

1U Rackmount



Features

- Support Intel® Comet Lake Series Processor, LGA1200
- 2-channel DDR4 ECC 2933MHz Memory, max support 128GB
- Support TPM/trust secure boot (BIOS recovery) & IPMI with Dying Gasp feature



Introduction

APTNS-33161 is a 1U Rack-Mount high-performance networking system, that supports a single 10th Generation Intel® Core™ processor for IoT applications. It is based on Intel's new 14nm Comet Lake architecture to deliver breakthrough computing performance. CPU up to 10 cores / 20 Threads, 20MB cache, and maximum turbo frequency of 4.8GHz.

The APTNS-33161 supports 4x DDR4 ECC DIMM (up to 2933MHz) in dual channels and maximum memory capacity up to 128GB. With total 24 PCI Express lanes, the APTNS-33161 can support up to 4 NIC modules, support multiple Ethernet module bays for flexible port configuration, such as 1/10/25/40/100Gigabit fiber or copper with optional Bypass function. The maximum capable Ethernet port is up to 32x 1GbE ports. APTNS-33161 supports standard FHHL PCIe slot for RAID or others PCIe device usage in rear.

The strong IO elements of APTNS-33161 include two management Ethernet port (one for management, another for optional IPMI function), a console port, two USB 2.0 ports, a Graphic LCD module with keypad (5 key), LEDs for power/ HDD/ 2 x GPIO. In addition, the APTNS-33161 also supports one 3.5" or two 2.5" SATA HDDs/SSDs, onboard one M.2 M key 2280/2242 slots for basic network storage application.

SPECIFICATION

CPU	10 th Generation Intel® Core™ processor
Chipset	W480
System Bus	DMI 3.0 x4
BIOS	AMI® UEFI BIOS
System Memory	DDR4 2933 ECC/non-ECC 128GB (4x DIMM)
Expansion Slots	- Front Side: 4x Network Expansion Module (2x PCIe Gen3 x8 & 2x PCIe Gen3 x4) - Rear Side: 1x PCIe x8 slot (x4 signal) - Inside: 1x mPCIe
GbE Ethernet	2x 1GbE RJ45
SATA	1x 3.5" or 2x 2.5" HDD/SSD
mSATA	1xM Key 2242/2280
CompactFlash Socket	1x CompactFlash Socket

I/O

Serial Port	1x console & 1x LCM
LED	- 2x Status LED (Green / Red via programmable GPIO) - 1x Power LED (Yellow) - 1x HDD LED (Green)
USB	2x USB 2.0

MECHANICAL AND ENVIRONMENT

Power	300W Redundant ATX PSU or 250W Flex ATX PSU
Dimension	438mm (W) x 510mm (D) x 44mm (H)
Operating Environment	0 ~ 40°C (32 ~ 104°F)
Storage Environment	-20 ~ 75°C (-4 ~ 167°F)
Humidity	10 ~ 85% relative humidity, non-operating, non-condensing
Weight	9 kg
Certification	CE/FCC/LVD

PACKING LIST

- 1x APTNS-33161 unit
- 1x power cord



*All information provided is subject to change without notice. Last updated: March, 2021

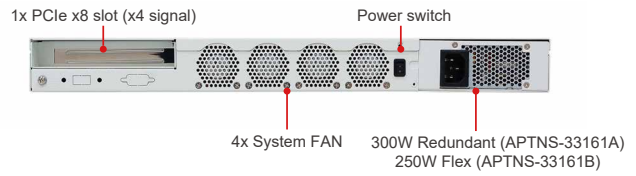
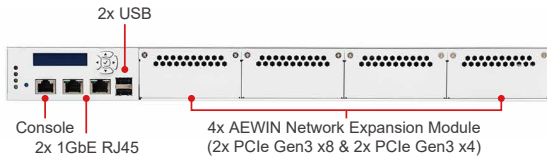
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I/O



DIMENSION

