

EtherGRID™

Next-Generation Hybrid Cloud Platform

The Allied Telesis EtherGRID™ hybrid cloud platform provides integrated servers and storage and is designed for Enterprises and Communication Service Providers (CSPs) that want to leverage cloud technology principles across their own infrastructures versus as a pure public cloud.



Overview

EtherGRID integrates networking, storage, compute, and virtualization for faster application delivery to end users. EtherGRID delivers in-demand industry technologies in cloud and SDN/NFV, dramatically improving CAPEX and OPEX for customers.

Specifications

System Processor

- ▶ 7th Generation Intel® CPU (Kaby Lake-S)
 - Intel® Core i3-7100T: 3M Cache, 3.4 GHz, TDP 35W
 - Intel® Core i5-7500T: 6M Cache, up to 3.3 GHz, TDP 35W
 - Intel® Core i7-7700T: 8M Cache, up to 3.8 GHz, TDP 35W
 - Intel® Core i3-7300: 4M Cache, 4.0 GHz, TDP 51W
 - Intel® Core i5-7500: 6M Cache, up to 3.8 GHz, TDP 65W
 - Intel® Core i7-7700: 8M Cache, up to 4.2 GHz, TDP 65W
 - Intel® Xeon E3-1275 v6: 8M Cache, up to 4.2 GHz, TDP 73W
- ▶ 6th Generation Intel® CPU (Skylake-S)
 - Intel® Core i3-6100TE: 4M Cache, 2.7 GHz, TDP 35W
 - Intel® Core i5-6500TE: 6M Cache, up to 3.3 GHz, TDP 35W
 - Intel® Core i7-6700TE: 8M Cache, up to 3.4 GHz, TDP 35W
 - Intel® Xeon E3-1268L v5: 8M Cache, up to 3.4 GHz, TDP 35W
 - Intel® Core i3-6100: 3M Cache, 3.7 GHz, TDP 51W
 - Intel® Core i5-6500: 6M Cache, up to 3.6 GHz, TDP 65W
 - Intel® Core i7-6700: 8M Cache, up to 4.0 GHz, TDP 65W
 - Intel® Xeon E3-1225 v5: 8M Cache, up to 3.7 GHz, TDP 80W
 - Intel® Xeon E3-1275 v5: 8M Cache, up to 4.0 GHz, TDP 80W

Chipset Intel® C236 BIOS

AMI 16MB BIOS

Memory

- ▶ 2x DDR4-2133/2400MHz SO-DIMM Sockets, Support up to 32 GB (Un-buffered and Non-ECC type)

Graphics

- ▶ Integrated Intel® HD Graphics supports triple independent display (1x DVI-I, 2x DisplayPort)

Audio

- ▶ Realtek® ALC888
- ▶ High Definition Audio

I/O Interface

- ▶ 1x DVI-I Connector (1920 x 1080 @60Hz)
- ▶ 2x DisplayPort Connectors (3840 x 2160 @30Hz)
- ▶ 2x GbE LAN (Support WoL, Teaming, Jumbo Frame, IEEE 1588v2 and PXE), RJ45
 - GbE1: Intel® I210-AT
 - GbE2: Intel® I219-LM
- ▶ 4x RS-232/422/485 with Auto Flow Control (Support 5V/12V), DB9
- ▶ 8x USB 3.0 (Type-A)
- ▶ 1x Line-out & 1x Mic-in, Phone Jack 3.5mm
- ▶ 1x ATX Power On/Off Button
- ▶ 1x Reset Button
- ▶ 1x AT/ATX Mode Switch
- ▶ 1x Clear CMOS Switch
- ▶ 1x Remote Power On/Off Connector, 2-pin Terminal Block
- ▶ 1x External FAN Connector, 4-pin Terminal Block (supports smart fan by BIOS)

Storage

- ▶ 2x SATA III (6Gbps) for 2.5" HDD/SSD
- ▶ 4x mSATA (Shared by Mini-PCIe Socket) (Gen2)
- ▶ Supports S/W RAID 0, 1, 5 & 10

Expansion

- ▶ Supports CFM (Control Function Module) Technology
 - CFM IGN Module, CFM PoE Module
- ▶ Supports CMI (Combined Multiple I/O) Technology
 - 4x RJ45 GbE LAN Module, 4x M12 GbE LAN Module (via 2x High Speed CMI Interfaces)
 - 2x COM Module, 16x Optical Isolated DIO Module (via 1x Low Speed CMI Interface)
- ▶ 4x Full-size Mini-PCIe Sockets
- ▶ 1x SIM Socket

Other Function

- ▶ Supports Instant Reboot Technology (0.2 sec)
- ▶ SuperCap Integrated for CMOS Battery-free Operation
- ▶ Watchdog Timer: Software Programmable Supports 1~255 sec. System Reset

Power Requirement

- ▶ Supports AT/ATX Power Type

- ▶ Power Input Voltage 9~48VDC
- ▶ 3-pin Terminal Block
- ▶ Power Adapter AC/DC 24W/5A 120W or 24W/9.2A 220W (Optional)

Physical

- ▶ Dimension (WxDxH): 242 x 174 x 77 mm
- ▶ Weight: 3.6 kg
- ▶ Extruded Aluminum with Heavy Duty Metal
- ▶ Wall mount / VESA mount / DIN Rail Mount / Side Mount
- ▶ Unibody Chassis
- ▶ Fanless Design
- ▶ Jumper-less Design
- ▶ Cable less Design

Protection

- ▶ Reverse Power Input Protection
- ▶ Over Voltage Protection: 58V
- ▶ Over Current Protection: 15A
- ▶ ESD Protection: +/-15kV (air), +/-8kV (contact)
- ▶ Surge Protection: 3.84 kV (impedance 12 ohm 1.2/50us waveform)

Operating System

- ▶ Windows® 10 / 8.1 / 7
- ▶ Linux: Supports by project

Environment

- ▶ Operating Temperature:
 - 7th Generation Intel® CPU (Kaby Lake-S)
 - 35W TDP CPU: -40°C to 50°C
 - 51W~65W TDP CPU: -40°C to 45°C
 - 73W TDP CPU: -40°C to 40°C
 - 6th Generation Intel® CPU (Skylake-S)
 - 35W TDP CPU: -40°C to 70°C
 - 51W~65W TDP CPU: -40°C to 55°C
 - 80W TDP CPU: -40°C to 40°C
- (With Extended Temperature Peripherals; Ambient with Air Flow; According to IEC60068-2-1, IEC60068-2-14)
- ▶ Storage Temperature: -40°C to 85°C
- ▶ Relative Humidity: 40°C @ 95% RH (non-Condensing)
- ▶ Shock: Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
- ▶ Vibration: Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
- ▶ EMC: CE, FCC Class A
- ▶ Safety: LVD (EN60950-1) (Pending)
- ▶ Fire Protection: EN45545-2
- ▶ Railway: EN50155, EN50121-3-2
- ▶ In-Vehicle: E-Mark (Pending)
- ▶ MTBF: 457,941 Hours

Database: Telcordia SR-332 Issue