S-750

Low-Cost Branch Office and Remote Application Platform

The S-750 is designed to host and better manage branch office and remote applications that require advanced network computing and connectivity in a low profile, purpose-built box. The S-750 solution features the latest in Intel Goldmont Microarchitecture Atom low power system on chip (SoC). The S-750 is a set-top box that supports a single Denverton-NS 16-core or 8-Core SoC, houses up to 128 GB of DDR4 DRAMs, up to 4 SATA Drives, Wi-Fi / WWAN options and integrated bypass LAN ports, enabling a more complete appliance solution.

Features and Benefits

Low Cost Performance

- For small and medium businesses, branch offices and remote applications, the S-750 provides robust x86 performance at an affordable price
- Latest in Intel CPU Microarchitecture & DDR4 memory technologies to ensure maximum price/performance effectiveness
- Supports M.2 PCIe SSDs for increased storage performance
- Quad 10 GbE LAN ports for greater I/O performance

The Right Platform for Your Application

- Enterprise class SATA /PCIe drives support to ensure quality and reliability
- Integrated bypass LAN ports Ideal for security and network applications
- Optional Wi-Fi and WWAN interfaces
- UNICOM Engineering branding options allow for strong product/corporate branding, including bezel branding, shipping container branding and documentation kits

AT A GLANCE

- Set-top box server
- Single 16-core / 8-core Intel Denverton-NS System-on Chip C3000 Series
- Up to 128 GB DDR4 DRAM
- Up to 2x2.5" SATA drives (fixed)
- Up to 2xM.2 devices; storage, wireless
- 4x10 GbE LAN ports with bypass
- Shared IPMI 1 GbE LAN port
- Optional Wi-Fi and WWAN Interfaces
- Single AC/DC desk top power adapter

S-750
technical specifications

S-750 Rear View

Form Factor
Set-top box

Dimensions (HxWxD)
~ 1.70" (43.2mm) x 10.75" (273mm)
x 10.87" (274.3mm)

Processor
- Supports Intel Denverton-NS SoC C3000 Series
- C3958, 16-core, 2.0 GHz, 31W
- C3708, 8-core, 1.7 GHz, 17W

Memory
- Up to 4 DIMMs slots, DDR4 up to 2400 MT/s
- Up to 128 GB (max)
- DIMM sizes: 8 GB, 16 GB, 32 GB

Storage
- Up to 2x 2.5" SATA, 6 Gb/s internal drive bay
- Up to 2xM.2 drive bays; 1xB-Key, SATA3, PCIe x2 & 1xM-Key, SATA3, PCIe x2
- 1xSATADOM, SATA3, 6Gb/s

Wireless Options
- Optional M.2 Wi-Fi interface kit
- Optional M.2 WWAN interface

Integrated External I/O
- DB-15 Video port (rear)
- 1 COM Port (1 by rear)
- 4 USB 3.0 ports (4 by rear)
- 4 RJ-45 10 GbE LAN ports with bypass (rear)
- 1 shared IPMI 1 GbE LAN port (rear)

Server Management
- Support for Intelligent Platform Management Interface v.2.0
- IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
- Aspeed AST 2400 BMC
- IPMI with shared LAN

Front Control Panel
- Power on/off button
- System reset button
- Power LED

System Cooling
1 internal fan

Power
External AC/DC desk top power adapter

Regulatory
- FCC Class A, VCCI, CE, NRTL, RoHS, RCM
- Other certifications per specific requirements

Environment
- Operating temperature: 5°C to 35°C (41 to 95°F)
- Non-operating temperature: -40°C to 60°C (-40 to 140°F)
- Operating humidity: 8%-90% (non-condensing)
- Non-operating humidity: 5%-95% (non-condensing)

Warranty
- Standard two-year limited warranty, return to factory.
- Optional extended warranty and advance replacement service.

NOTE: These specifications should be viewed as preliminary and final specifications may vary.

Support and Maintenance Services

UNICOM Engineering offers a variety of support and maintenance service programs to ensure high availability, rapid response, effective troubleshooting, fast parts replacement and 24-hour support.

Please visit www.unicomengineering.com/supportservices for more information.

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