S-650 R4
Low-Cost Branch Office and Remote Application Platform

The S-650 R4 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-650 R4 solution features the latest in Intel® Silvermont low power system on chip (SoC) Microarchitecture. The S-650 R4 is a set-top box that supports a single Rangeley 8-core or 2-Core SoC, houses up to 32 GB of DDR3 SDRAM, up to 2 fixed 2.5 inch SATA HDD 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-650 R4 provides robust x86 performance at an affordable price
- The S-650 R4 platform feature the Intel Rangeley SOC and can support up to 8 CPU cores
- Integrated LAN bypass feature that, in the event of a system hang or power down, allows connected systems to continue to function

Small Office-Friendly Footprint

- The S-650 R4 uses a set-top form factor with optional rack mount capabilities
- Enterprise-class SATA drive ensures data quality and reliability
- Optional Wi-Fi interface
- Quiet Operation

AT A GLANCE

- Set-top box
- Single 8-core / 2-core Intel Rangeley System-on Chip C2000 Series
- 32 GB SDRAM (max)
- Up to 2 SATA drives (fixed)
- Up to 7 GbE LAN ports with three pairs bypass
- IPMI with shared LAN
- Optional Wi-Fi interface
- Single AC/DC desk top power adapter

S-650 R4
technical specifications

S-650 R4 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 Rangeley SoC C2000 Series
- C2758, 8-core, 2.4 GHz, 20W
- C2358, 2-core, 1.7 GHz, 7W

Memory
- Up to 4 DIMMs slots, DDR3 up to 1600 MT/s
- C2758 up to 32 GB (Max)
- C2358 up to 16 GB (Max)
- DIMM sizes: 4 GB, 8 GB

Storage
- Up to 2x 2.5" Internal Drive Bay
- Supports storage and data transfers at up to 6 Gb/s

Expansion
Optional Wi-Fi interface kit

Integrated External I/O
- DB-15 Video port (rear)
- 2 COM Ports (1 by rear)
- 2 USB 2.0 ports (2 by rear)
- 7 RJ-45 1 GbE LAN ports with 3 pairs bypass (rear)... C2758 / C2358
- 5 RJ-45 1GbE LAN ports with 2 pairs bypass (rear)... C2358

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

Environment
- Operating Temperature: 10°C to 35°C (50 to 95°F)
- Non-Operating Temperature: -40°C to 70°C (-40 to 158°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.

sales@unicomengineering.com

unicomengineering.com

twitter.com/UNICOMEng

facebook.com/UNICOMEng

+1 800.977.1010

linkedin.com/company/unicomengineering