UNICOM Engineering, Inc.
A Division of UNICOM Global

Purpose-Built Appliances for Information Security Applications

Security threats are an incessant concern as incidents and breaches escalate and attacks become more targeted. The rise in threat vectors has compounded the issue with data sharing across networks, the internet, mobile devices, the cloud and social networking outlets. But one of the most important considerations is the cost to organizations that fall victim—especially in regards to their reputation. The heightened awareness continues to create an opportunity and demand for solutions that predict, prevent, detect and respond to threats against critical architecture and data. This includes everything from antivirus applications to email security, URL filtering and SIEM. Successful application providers have capitalized on this by delivering innovative applications on purpose built, secure appliances that deliver. They engage with a trusted deployment partner focused on streamlining the delivery of their solutions while freeing up time and resources to focus on innovation.

UNICOM Engineering combines a complete set of delivery services with a broad portfolio of reference platforms to shorten time-to-market, while improving application performance, lowering support costs and increasing revenue. Our appliances are delivered as a plug and play device—simple to install, run and manage. Experienced hardware engineers utilize the latest technologies to design secure, tailored solutions that optimize your application's performance and reduce vulnerability while managing costs. Once your solutions are ready to ship; global logistics capabilities, trade compliance experts, extensive support programs and an expansive network of support depots worldwide support your business wherever it takes you.

Why Choose UNICOM Engineering?

- Appliance Development and Customization Services
- Global Quality Manufacturing Facilities that Maintain ISO Certifications
- Complete Integration Services with Built in Controls and Reporting
- Full Lifecycle Management Control and Reporting
- System Imaging Services
- Custom Branding Expertise
- Global Logistics Capabilities
- Advanced Server Replacement Coverage
- On-site and Advanced Troubleshooting Services
- Forward and Centralized Stocking Locations Worldwide

UNICOM Engineering Purpose-Built Appliances are ideal for the following types of information security applications:

- Unified Threat Management
- Malware Isolation & Analysis
- Network Monitoring, Reporting & Forensics
- Secure Email/Web Gateway
- Single Sign-On/Key Management
- SIEM
- End Point Security

SUPERMICRO

intel IoT Solutions Alliance

The following represents a few of the reference platforms available from UNICOM Engineering that are well suited for information security applications:

Appliance Specifications

PLATFORM	S-1300	S-1500	S-1600 R5	E-1800 R5
				
Technology Partner	Supermicro	Supermicro	Supermicro	Intel
Dimensions (H x W x D)	1.70" x 17.2" x 11.3"	1.7" x 17.2" x 19.8"	1.7" x 17.2" x 25.6 (4x 3.5"); 1.7" x 17.2" x 23.5 (10x 2.5")	1.70" x 17.25" x 28.0"
Form Factor	1U - Rackmount	1U - Rackmount	1U - Rackmount	1U - Rackmount
# of Processor(s)	One	One	One	Two
Intel Microarchitecture	Goldmont	Goldmont	Skylake	Skylake
Processor	Denverton-NS SoC C3000 series, up to 16 cores	Denverton-NS SoC C3000 series, up to 16 cores	Xeon SoC D-2100 series, up to 12 cores	Xeon SP 6100, 5100, 4100 series, up to 20 cores
Memory	4x DIMMs (128 GB), DDR-2400 MT/s	4x DIMMs (128 GB), DDR-2400 MT/s	4 DIMMs (256 GB), DDR-2400 MT/s	24 DIMMs (1.5 GB), DDR-2666 MT/s
Drive Types	SATA3/NVMe	SAS3/SATA3/NVMe	SAA3/SATA3/NVMe	SAA3/SATA3/NVMe
Drive Bays	1x 3.5" fixed or 4x 2.5" fixed SATA3, 2x M.2 (B Key, M Key), 1x SATADOM	4x 3.5" hot swap SAS3/SATA3, 2x M.2 (B Key, M Key), 1x SATADOM	4x 3.5" hot swap SAS3/SATA3 or 8x 2.5" hot swap SAS3/SATA3 + 2x 2.5" hot swap SAS3/SATA3/NVMe;	4x 3.5" hot swap SAS3/SATA3 or 8x2 .5" hot swap SAS3/SATA3/NVMe;
RAID Controller	Optional RAID Controller add-in card	Optional RAID Controller add-in card	4x SATA 6 Gb/s Intel Embedded RAID support with RAID levels 0/1/5/10 via SoC	2 embeded SATA RAID Options: RSTe, ESRT2. - Available RAID levels: 0,1,5,10; Optional RAID 5 Key for ESRT2. Opitions VROC Keys for NVMe RAID 0,1,5,10 support
PCIe Slots	1x PCIe 3.0 x8	1x PCIe 3.0 x8	3x PCIe 3.0 x8	2x PCIe 3.0 x16
Onboard Ethernet Interfaces	4x 10 GbE ports with bypass; 1x GbE LAN port	4x 10 GbE ports with bypass; 1x GbE LAN port	4x RJ45 GbE, 2x RJ45 10 GbE Base-T, 2x 10GbE SFP+	2x 10 GbE ports
Management	Integrated IPMI 2.0 with KVM and shared LAN	Integrated IPMI 2.0 with KVM and shared LAN	Integrated IPMI 2.0 with KVM and dedicated LAN	Integrated Baseboard Mgmt. Controller, IPMI 2.0 compliant, Remote Mgmt. Module 4 (RMM4)
Power	1x 200W AC	1x 400W AC redundant	500W (4x 3.5") / 700-750W (10x 2.5") redundant AC power	Redundant 1100W AC Platinum or 750W DC Gold
Cooling	2x 8500 RPM cooling fan	4x 4 cm 12,500 PWM blower fans	4x 40x56 mm counter-rotation pulse width modulation (PWM) cooling fans	Six hot swap system fans, one fan per installed power supply module
OS Compatibility	Windows Server, Linux	Windows Server, Linux	Windows Server, Linux	Windows Server, Linux
Regulatory	NRTL, CE, CB, FCC Part 15, Class A, VCCI, RCM; other marks are available for a fee	NRTL, CE, CB, FCC Part 15, Class A, VCCI, RCM; other marks are available for a fee	NRTL, CE, CB, FCC Part 15, Class A, VCCI, RCM; other marks are available for a fee	NRTL, CE, CB, FCC Part 15, Class A, VCCI, RCM; other marks are available for a fee

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

Learn More: Contact UNICOM Engineering at 800-977-1010 or visit www.unicomengineering.com.
Our team is ready to help you deliver your solutions faster, better and far more cost effectively.

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