

Purpose-Built Appliances for Digital Media Applications



The digital media market is exploding with ever increasing amounts of ultra-dynamic content, connected devices and consumers wanting rich media delivered to any screen they choose at a moment's notice. This environment has given rise to a multitude of solutions geared towards every aspect of the digital value chain. From the management of digital content to the enablement of access, to distribution and delivery platforms and finally test and measurement solutions that manage the overall consumer experience. Successful application providers have taken advantage of this competitive market by delivering scalable, secure, integrated platforms that deliver the best user experience and keep consumers wanting more. But, how do application providers capture market share and stay competitive? They engage with a trusted deployment and delivery partner focused on streamlining the delivery of their digital media solution while freeing up time and resources to focus on sales and innovative next gen solutions.

UNICOM Engineering's comprehensive set of delivery services combined with a broad portfolio of appliance platforms is designed 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. Our team of experienced hardware engineers utilize the latest technologies to design secure, tailored solutions that optimize your application's performance, solve latency and throughput issues while managing costs. Once solutions are tested and qualified, detailed build plans and process documents are created with quality checkpoints to ensure predictable and repeatable solutions. Global logistics capabilities, trade compliance experts, extensive post sales 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 digital media applications:





- Video Transport
- Video Content Management
- Video Encoding / Decoding
- Video Streaming & Recording
- On-Demand Media
- Collaborative Video Conferencing
- Digital Archiving & Retrieval
- Web Casting

Technology Partner Relationships



The following are a few UNICOM Engineering purpose-built appliances well suited for video system applications.

Appliance Specifications


PLATFORM	S-2700 R5	E-2900 R5	PowerEdge R740	Proliant DL380 G10
Technology Partner	 Supermicro	 Intel	 Dell EMC	 HP
Form Factor	2U Rackmount	2U Rackmount	2U Rackmount	2U Rackmount
Dimensions (H x W x D)	3.5" x 17.2" x 25.5"	3.5" x 17.25" x 31.25"	Chassis depth: 28.17"	3.44" x 17.54" x 28.75"
Processors	One - Intel Xeon D-2100 Processor (Skylake Microarchitecture)	Two - Intel Xeon Scalable Processors (Skylake Microarchitecture)	Two - Intel Xeon Scalable Processors (Skylake Microarchitecture)	Two - Intel Xeon Scalable Processors (Skylake Microarchitecture)
Chipset	Soc (System-on-Chip)	Intel C624	Intel	Intel C621
Memory	4 DIMMs (256GB), DDR4-2400 MT/s	24 DIMMs, 2 DIMMs / Chan, 6 Memory Chans / Processor, (1,536 GB), DDR4-2666 MT/s	24 DDR4 DIMM slots, supports RDIMM /LRDIMM, 1.5TB max, up to 12 NVDIMM, 192 GB Max, Supports registered ECC DDR4 DIMMs only, DDR4-2666 MT/s	Up to 3 TB in 24x slots, using 128 GB DIMMs, support for up to 12 NVDIMMs per chassis, DDR4-2666 MT/s
Drive Bays	8x 3.5" SAS3/SATA3 + 4 x 3.5" SAS3/SATA3/NVMe hot-swap, 1x M.2 M-Key SATA/PCIe 3.0 x4 + 1x M.2 M-Key PCIe 3.0 x4, Optional 2x 2.5" hot swap SATA - rear	12 hot swap 3.5" SAS3/SATA3/NVMe(2) or 24 hot swap 2.5" SAS3/SATA3/NVMe; 2 M.2 SATA3/NVMe	Front drive bays: up to 16 x 2.5" SA3S/SATA3 (HDD/SSD) max 61 TB or up to 8 x 3.5" SAS3/SATA3 HDD max 80 TB	8 SFF with optional Universal Media Bay, and optional SFF or NVMe options; 24 SFF bay with 6SFF rear drive bay options with 30 SFF drive bays total; 8 LFF with Universal Media Bay; 12 LFF plus optional 4 LFF mid-plane or 3LFF + 2 SFF drives rear with 19 LFF drive bays total... Along with additional boot/drive/rear options: SATA M.2; dual uFF SSD (2x M.2 cartridges)
RAID Controllers	4x SATA 6Gb/s Intel Embedded RAID support with RAID levels 0/1/5/10 via SoC	2 embedded SATA RAID Options: RSTe, ESRT2. - Available RAID levels: 0,1,5,10; Optional RAID 5 Key for ESRT2. Options VROC Keys for NVMe RAID 0,1,5,10 support	Internal controllers: PERC H330, H730p, H740p, HBA330, Software RAID (SWRAID) S140, Boot Optimized Storage Subsystem: HWRAID 2 x M.2 SSDs 120GB, 240 GB	1 HPE Smart Array S100i and/or 1 HPE Smart Array P408i-a and/or 1 HPE Smart Array P816i-a and/or 1 HPE Smart Array E208i-a, depending on model
PCI Slots	Three Addin Card slots: 3x PCIe 3.0	Six PCI slots, 8 PCI slot w/optional 3rd riser card	Eight PCIe slots	Eight PCIe slots
Infrastructure Mgmt	Integrated IPMI 2.0 with KVM and dedicated LAN	Integrated Baseboard Mgmt. Controller, IPMI 2.0 compliant, Remote Mgmt. Module 4 (RMM4)	IPMI 2.0 compliant, iDRAC9 with Lifecycle Controller (Express, Enterprise), Quick Sync 2 wireless module optional	HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download) HPE iLO Advanced, HPE iLO Advanced Premium Security Edition and HPE OneView Advanced (require licenses)
Media Drives	None	None	Optional DVD-ROM, DVD+RW	Optional DVD-ROM, DVD+RW
Onboard Ethernet Interfaces	4x RJ45 GbE, 2x RJ45 10 GbE Base-T, 2x 10 GbE SFP+	Two 10 GbE ports standard - S2600WFT server board only	Network daughter card options: 4x 1 GE or 2 x 10 GE + 2 x 1 GE or 4x 10 GE or 2 x 25 GE	Embedded 4x1 GbE plus HPE FlexibleLOM or PCIe standup 1 GbE, 10 GbE or 25 GbE adapters
OS Compatibility	64 bit Windows OS, 64 bit Linux OS, VMware OS, Citrix OS	Windows 2016/2012 R2, RedHat Linux 7.2/7.1, SuSE Linux 12	Canonical® Ubuntu® LTS, Citrix® XenServer®, Microsoft Windows Server® with Hyper-V, Red Hat® Enterprise Linux, SUSE® Linux Enterprise Server, VMware® ESXi	Windows Server 2012 R2, Windows Server 2016, VMware ESXi 6.0 U3, VMware ESXi 6.5, Red Hat Enterprise Linux (RHEL) 6.9 and 7.3, SUSE Linux Enterprise Server (SLES) 11 SP4 and 12 SP2, ClearOS
Cooling	3x 80x80x38mm heavy duty counter-rotation cooling fans	Six hot swap system fans, one fan per installed power supply module	Hot-plug redundant cooling	Hot-plug redundant standard
Power	920W redundant AC power	Redundant 1300, 1100W AC Platinum or 750W DC Gold	Titanium 750W, Platinum 495W, 750W, 1100W, 1600W, and 2000W 48VDC 1100W, 380VDC 1100W, 240VDC 750W Hot plug power supplies with full redundancy option	Hot-pluggable, redundant 500W AC, 800W AC, and 1600W AC -48VDC and 227VAC/380VDC power inputs.

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.

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

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