UNICOM Engineering, Inc.
A Division of UNICOM Global

# 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 Achieving & Retrieval
- Web Casting

## Technology Partner Relationships

intel IoT Solutions Alliance

DELL Technologies TITANIUM PARTNER

Hewlett Packard Enterprise

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

## Appliance Specifications

| PLATFORM | S-1800 R5 | E-2900 R5 | Dell PowerEdge R740 | HPE ProLiant DL380 Gen10 |
|---|---|---|---|---|
| | | | | |
| **Form Factor** | 1U Rackmount | 2U Rackmount | 2U Rackmount | 2U Rackmount |
| **Dimensions (H x W x D)** | 1.70" x 17.25" x 30.25" | 3.5" x 17.25" x 31.25" | Chassis depth: 28.17" | 3.44" x 17.54" x 28.75" |
| **Processors** | Two - Intel Xeon Scalable Processors (Skylake Microarchitecture | Two - Intel Xeon Scalable Processors (Skylake Microarchitecture) | Two - Intel Xeon Scalable Processors (Skylake Microarchitecture) | Two - Intel Xeon Scalable Processors (Skylake Microarchitecture) |
| **Chipset** | Intel C624 | Intel C624 | Intel | Intel C621 |
| **Memory** | 24 DIMMs, 2 DIMMs / Chan, 6 Memory Chans / Processor, (1,536 GB), DDR4-2666 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** | 4 x 3.5" SAS/SATA hot swap drive bays or 8 x 2.5" SAS/SATA/NVMe hot swap drive bays; 2 x M.2 SSD connectors | 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** | On-Board SATA Software RAID levels 0/1/10; Optional SATA Software RAID 5 with activation key; Optional Intel Virtual RAID on CPU (VROC) for NVMe with activation key | 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 | 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** | Two riser card slots, Max two PCIe cards Support for RAID & OCP module | Six PCI slots, 8 PCI slot w/optional 3rd riser card | Eight PCIe slots | Eight PCIe slots |
| **Infrastructure Mgmt** | Integrated Baseboard Mgmt. Controller, IPMI 2.0 compliant, Remote Mgmt. Module 4 (RMM4) | 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** | Two 10 GbE ports standard - S2600WFT server board only | 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** | Microsoft Windows Server 2016 / 2012 R2, Red Hat Enterprise Linux 7.2 / 7.1, SuSE Enterprise Linux 12 | 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** | Six hot swap system fans, one power supply fan for each power supply module | Six hot swap system fans, one fan per installed power supply module | Hot-plug redundant cooling | Hot-plug redundant standard |
| **Power** | Up to 2 hot swap, redundant capable power supply, 1100W AC Platinum or 750W DC Gold | Redundant 1300, 1100W AC Platinum or 750W DC Gold | Titanium 750W, Platinum 495W, 750W, 1100W, 1600W, and 2000W<br>48VDC 1100W, 380VDC 1100W, 240VDC 750W<br>Hot plug power supplies with full redundancy option | Hot-pluggable, redundant 500W AC, 800W AC, and 1600W AC<br>-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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