

» SYMKLOUD MS2900 Media «



Fully Integrated Cloud Computing Platform For Deploying Media-based Infrastructure Applications

New modular hardware and software approach to achieve superior cloud computing performance, energy savings, and ease of system management

- » Designed from the ground up to integrate switching, load balancing and processing in a 3-in-1 modular approach
- » Power efficiency for significant OPEX savings
- » Simplified 1-click updates
- » Seamless cluster and rack scalability
- » Designed for IPTV, Cable, Cloud and Mobile Cloud service providers to introduce new applications used for mobile and fixed video transcoding, unified communications and Video Surveillance as a Service (VSaaS)

Designed for the media optimization applications for cloud infrastructure and next-gen data center requirements

With mobile devices challenged by power consumption and the usage of bandwidth-hungry video content, the need for efficient transcoding in the cloud has never been greater.

As transcoding for mobile devices is moving in to the Cloud to offload the required processing on the mobile device, the result is better power efficiency on the mobile device. Working with Intel, Kontron has created the optimal solution that addresses the issue of energy efficiency, scalability and cost, and results in a better user experience. The Kontron SYMKLOUD Media platform is also designed to complement M2M applications as a connecting element for Video Surveillance-as-a-Service (VSaaS).

The SYMKLOUD Series is a step in the right direction. The Kontron MS2900 is designed from the ground up to improve how service providers deploy any web-based hosted services in four key areas:

» Multifaceted approach towards achieving the best **Power Efficiency**;

- » Integrated Switching and Load Balancing for more elegant and seamless **Cluster and Rack Scalability**;
- » **Simplified Management** that slashes system-level update times;
- » **Integration Servicing** of all required hardware and software to match requirements of client's infrastructure applications

Its overall modular approach makes the Kontron SYMKLOUD Media platform also capable of running multiple applications – including transcoding – across multiple independent low-power, high-performance processors. The SYMKLOUD MS2900 Media platform features up to 16 Intel® Core™ i7-3615QE Quad-Core Processors with integrated Intel® HD Graphics 4000, and is future-proofed to accommodate next generation Intel processors.

42U Rack Configurations

| | |
|---------------------------|--|
| Clusters | Supports 8 platforms per cluster or 2.5 clusters per 42U |
| Processor | Up to 372 multicore CPUs per 42U |
| Load Balancing | Employs one or two subsystems (redundant) per cluster |
| Up to L7 Switching | 2x to 4x Fewer Fiber /Copper Cables |

Technical Information

Hardware Platform

Ruggedized Modular Platform design:

2U height, 21 inches deep;
Up to 9 hot-swappable subsystems;
Up to 2 hot-swappable load balancing between subsystems;
Single or redundant hot-swappable switches;
Single or redundant management ports;
Hot swap, redundant fans;
Front to back cooling;
Dual redundant 1100W AC or DC Hot Swap Power Supplies; 80 PLUS® Silver or better efficiency

Processor

Up to 16 Intel® i7-3615QE Quad-Core processors, with up to 256GB of Dual Channel DDR3 memory (Excluding Load Balancer subsystem)

Management

1-Click Web GUI platform management; Integrated BMC (iBMC) with advanced options; Support for SNMP and IPMI 2.0; dedicated system manager; and remote management for diagnostics and provisioning

Switching Infrastructure:

2 hot swap switches: Active-Active or Active-Standby;
High uplink capacity 4x 10 GbE SFP+ (front or rear) and 8 x 1 GbE ports RJ-45

Software

Load Balancing:

Improves application responsiveness by distributing application workloads evenly across servers;
Supports SSL Offload, Compression and HTTP Multiplexing, thus reducing latency, accelerating page loads and lowering bandwidth cost;
Supports virtualization management and for high availability environments;
VLB Basic and Advanced;

OS, Hypervisors and Middleware Support:

Various options available as part of integration services

Support

Product life cycle support (5-7 years)

Compliance / Regulatory

Designed to meet the following environmental, safety and EMC requirements: EN 300 019; Telcordia GR-63; Telcordia SR-3580 level 3; Telcordia GR-1089; EN 300 386; EN / CSA 60950-1; FCC PART 15

| Ordering Information | | |
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