

MCS-2080

2U 19" Media Cloud Server with Modular Compute and Switch Nodes

Features

- 16 systems (MCN-1500 compute node)
- Supports Intel® Quick Sync Video (GT4e graphics) with hardware assisted H.265/VP9 transcoding
- Dual redundant MXN-0410 Switch nodes, each providing 16x 1G internal links to Compute nodes MCN-1500 and 4x 10G uplinks
- 8x PCIe x8 slots to meet expansion requirements
- ADLINK MediaManager provides end-to-end video server prototype solution to speed up product development
- IPMI 2.0 with SOL and web-based management interface
- Adaptive fan speed and intelligent power supply monitoring



Applications

- High-definition video streaming, video conferencing and online classrooms
- High-density video transcoder for HEVC/VP9 and 4K/UHD
- Video surveillance and intelligent video analytics
- WebRTC and subscription-based video services

Specifications

Compute Node

- **CPU / Chipset /Memory (per node)**

MCN-1500 Form Factor compute node

1/4-width, hot-pluggable compute node (2 systems per node)

CPU

Dual Intel® Xeon® Processor E3-1585 v5 (BGA)

Chipset

Intel® C236 Chipset

Memory

4x DDR4-2133 SODIMM, up to 64GB

Graphics

Intel® GT4e integrated graphics

- **BIOS**

Chip

AMI BIOS on SPI flash memory

Features

Intel® PXE pre-boot

Remote Console via IPMI SOL

ACPI 1.0/2.0 support

UEFI

- **I/O Interfaces (per node)**

MCN-1500 Ethernet

4x 10/100/1000BASE-T Base Interface channels

Storage

Onboard: 2x mSATA slots, supports SSD modules up to 2x 512GB

USB

2x USB 2.0 ports on front panel (1 port per system)

HDMI

2x HDMI ports on front panel (1 port per system)

Expansion

1x PCIe x8 expansion slot to rear x86 system on each MCN-1500

MXN-0410 Switch Node

- **Chipset (per node)**

Processor

Broadcom 56150 Managed GbE Switch SoC

CMM

Chassis Management Module

- **I/O Interfaces (per node)**

External

4x10G SFP+ to front panel

3x 1GbE to front panel

1x RJ-45 Console port

Internal

16x 1G to backplane for MCN-1500 compute node

1x 1G between 2 MXN-0410 switch nodes

Specifications

Chassis Mechanical and Environmental

Form Factor: 2U 19" Rackmount System
Power Modules: 2x hot-swappable 2130W/1600W high-efficiency redundant power modules
Dimension: 438mm x 88mm x 900mm (W x H x D)
Fans: 6x fans with fan speed control on chassis

Operating Temp.

0°C to +40°C
Storage Temp.: 40°C to +70°C

Humidity

5% to 95%, non-condensing

Certification

CCC, CB

RoHS

RoHS compliant

ADLINK Application Ready Intelligent Platform Software Supported Software

Intel® Media Server Studio: delivers fast, high-density video transcoding using Intel media hardware accelerators (for MCN-1500)

OpenCL API: enables customized and accelerated media pipeline

OpenStack: for building and managing cloud computing platforms for video content

Intel® Video Analytics Software Suite: for creating big-data based video analytics solutions

Intel® Collaboration Suite for WebRTC: for creating high-performance, reliable, and scalable web communication solutions

Ordering Information

- MCS-2080**
2U, 19" chassis with 2 redundant PSU
- CMM-100**
Chassis management module
- MXN-0410**
Switch Node: 4x 10G Managed GbE Switch
- MCN-1500**
Compute Node: Dual Intel® Xeon® Processor E3-1585 v5 (BGA)

Mechanical Layout

