

# MCS-2080 2U 19" Media Cloud Server with Modular Compute and Switch Nodes

## Features

- 16 systems (MCN-1500 compute node)
- Supports Intel<sup>®</sup> 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 managment interface
- Adaptive fan speed and intelligent power supply monitoring

## **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<sup>®</sup> Xeon<sup>®</sup> Processor E3-1585 v5 (BGA)

Chipset Intel<sup>®</sup> C236 Chipset

Memory 4x DDR4-2133 SODIMM, up to 64GB

**Graphics** Intel<sup>®</sup> 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



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## 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

## 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

## 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<sup>®</sup> Xeon<sup>®</sup> Processor E3-1585 v5 (BGA)

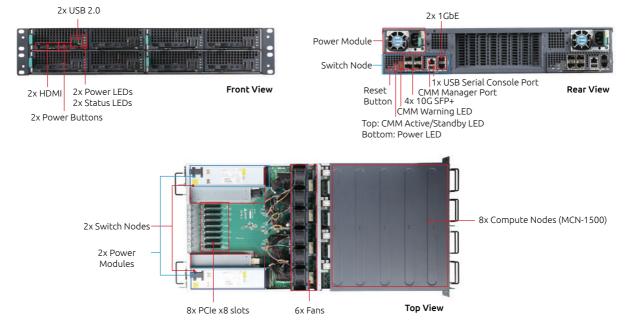
### ADLINK Application Ready Intelligent Platform Software Supported Software

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 acalytics calutions

big-data based video analytics solutions

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

# Mechanical Layout





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