

# MCS-2080

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

### Features

- 16 systems (MCN-1500 compute node) or 4 systems (MCN-2600T compute node), hybrid combinations supported
- Supports Intel® Quick Sync Video (GT4e graphics) with hardware assisted H.265/VP9 transcoding
- Dual redundant switch nodes, each providing 16x 1G internal links to compute nodes 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

### Specifications

#### Compute Node

##### CPU / Chipset / Memory (per node)

	MCN-1500	MCN-2600T
Form Factor	1/4-width, hot-pluggable compute node (2 systems per node)	1/2-width, hot-pluggable compute node (1 system per node)
CPU	Dual Intel® Xeon® Processor E3-1500 v5 (BGA) Dual 6th Gen Intel® Core™ i7/i5/i3 Processor (BGA)	Dual Intel® Xeon® Processor E5-2600 v3 (LGA)
Chipset	Intel® C236/C232/CM236 Chipset	Intel® C612 Chipset
Memory	4x DDR4-2133 SODIMM, up to 64GB	12x DDR4-2133 DIMM, up to 384GB
Graphics	Intel® GT4e integrated graphics	N/A

#### 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	MCN-2600T
Ethernet	4x 10/100/1000BASE-T Base Interface channels	2x 10/100/1000BASE-T Base Interface channels
Storage	Onboard: 2x mSATA slots, supports SSD modules up to 512GB	Onboard: 2x M.2 slots, supports SSD modules up to 512GB Internal: 2x 2.5" SATA 6Gb/s drive bays
USB	2x USB 2.0 ports on front panel (1 port per system)	2x USB 2.0 ports on front panel (1 port per system)
HDMI	2x HDMI ports on front panel (1 port per system)	1x HDMI port on front panel
Expansion	1x PCIe x8 expansion slot to rear of chassis	2x PCIe x8 expansion slots to rear of chassis, 1x PCIe x8 expansion slot (internal)



### 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

#### Ethernet-based Switch Node

##### Chipset (per node)

Processor	Broadcom 56150 Managed GbE Switch SoC
CMM	Chassis Management Module

##### I/O Interfaces (per node)

External	4x 10G SFP+ to front panel 3x 1GbE to front panel 1x RJ-45 Console port
Internal	16x 1G to backplane for compute nodes 1x 1G between 2 switch nodes

#### Chassis Mechanical and Environmental

Form Factor	2U 19" Rackmount System
Power Modules	2x hot-swappable 2200W/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, UL, NEBS Level 3 (design)
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 ADLINK MediaManager: provides common end-to-end video server prototype solution to speed up product development 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
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## Ordering Information

Model Number	Description/Configuration
MCN-1500	Compute Node: Dual Intel® Xeon® Processor E3-1500 v5 (BGA)
MCN-2600T	Compute Node: Dual Intel® Xeon® Processor E5-2600 v3 (LGA)
MXN-0410	Switch Node: 4x 10G Managed GbE Switch

## Mechanical Layout

