

CLOE 8H

High Density Computing Server Barebone



CLOE 8H is a high density Micro-Cloud Server.

It supports 8 nodes hot-swap, and each node works independently, end user can config node's quantity accordingly. It is widely applied to cloud computing, searching engine, web hosting, CDN, video server, social network/FTP and so on.

High and stable computing performance

CLOE 8H motherboard, based on Mehlow platform and LGA1151 socket, support the latest Intel® Xeon® E-2200 series processor, TDP up to 95W, work stably on full loading.

Customized on Demands, Collocate Easily

The whole system supports up to 8 nodes hot-swap, each node works independently, end user can configure the quantity and specification according to demands, such as storage expansion, Mezzanine card or PCIe card.

Excellent Ability of Storage Expansion

Each node support 2x 3.5" SATA/SAS HDD, the whole system up to 16x 3.5" SATA/SAS HDD. Each node support 4x DIMM slot dual channel, up to 64GB DDR4 ECC UDIMM. Each node support 2x M.2 NVMe SSD PCIe x2.

Flexible I/O

Each node support 4x GbE Intel® i210AT, the whole system up to 32x GbE.
Option Mezzanine Card NIC 2x GbE i350 or 2*10GbE 82599 SFP+ .
Each node with 1x 1PMI port, support remote management, based on ASpeed AST2500.
Each node with 1x HDMI port (work with HDMI to VGA adapter).
Each node support rear 2x USB3.1.

Centralized Cooling, Intelligent Temperature Control

4x 8038 hot-swap fans.
1+1 redundant 1600W CRPS hot-swap platinum efficiency power supply



System

Model	CLOE 8H	VGA	Aspeed AST2500 graphics, HDMI connector, need a HDMI to VGA adapter
HDD	Each node support 2x 3.5" SATA/SAS HDD	USB	Each node support 2x USB3.1
Dimension	710mm*448mm*132.2mm (L*H*W)	Power supply	1+1 redundant 1600W CRPS power supply hotswap
Processor	Support Intel® Xeon® E-xxx series processor Socket H4 (LGA1151), up to 95W CPU	IPMI	Each node with 1xNIC shared i210 IPMI 2.0 1 x BMC I2C debug port
Chipset	Intel® PCH C242/C246	Fans	4x 8038 12V fans hotswap
Motherboard	H4SCL	Network	4 x 1GbE (i210AT) on board, option Mezzanine NIC (2x GbE i350 RJ45 or 2x 10GbE 82599ES SFP+)
Memory	Each node support 4x288 pin DDR4 ECC UDIMM slot, each node up to 64GB DDR4-2666 Each slot support 2GB, 4GB, 8GB, 16GB, 32GB	Security	TPM/TCM(option);
PCIe Expansion	Each node support 1x PCIe x16 slot half height (can change it to 2xPCIe x8 riser card) Each node support 1x Mezzanine PCIe x4 connector (Note: C242 chipset do not support Mezzanine PCIe x4 connector, C246 support it)	Management	On-board iBMC management module, support IPMI, SOL KVM Over IP, virtual media management
SATA	Each node support 6xSATA3.0 connector, 2 of them connect with internal 2x2.5" port, other 4 connectors reserved. (note: C242 chipset support 4*SATA3.0 connector, 2 of them connect with internal 2x 2.5" port, other 4 connectors reserved)	Compatibility	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Linux KVM, Citrix Xen Server, Vmware ESXi, Ubuntu
SAS	Each node can install standard SAS card to support 3.5" SAS HDD (need install riser card and cable)	Virtualization	VMWare ESXi 6.0
M.2	Each node support 2xM.2 NVMe SSD (PCIe x2, option dimension:2240/2280/22110)	Temperature	Operation: 5°C - 35°C(no direct light); Expansion : 5°C - 40°C(limited configuration); Transport/storage: -40°C - 65°C
LAN	Each node support 4xi210AT GbE LAN	Humidity	Operation humidity: 30% - 80% (Non-Condensing) Storage humidity: 5% - 95% (Non-Condensing)