

GRAND-C422-20D-H

The GRAND-C422-20D is an AI training system which has maximum expansion ability to add in AI computing accelerator cards for AI model training or inference.



Feature

- Intel® Xeon® W family processor supported
- Up to 7 x PCIe Slot, with dual width expansion card support
- Water cooling system on CPU
- Support SAS SSD
- Support one M.2 SSD M-key slot (NVMe PCIe 3.0 x4)
- Support 10GbE network
- Support Hardware RAID
- IPMI remote management

Specifications

Model		GRAND-C422-20D-H1	GRAND-C422-20D-H2
Chassis	Dimensions (H x W x D)	176.15 x 480.94 x 644 mm	
	System Fan	2 x 120 mm, 12V DC	
	Chassis Construction	4U, Rackmount	
Motherboard	CPU	Intel® LGA-2066 Xeon® W Family processor	
	Processor Cooling	Water cooling system	
	Chipset	C422	
	Memory	Total slot: 4 x DDR4 ECC RDIMM / LRDIMM Memory expandable up to:256GB (4 x 64GB)	
Security	TPM	1 x TPM 2.0 Pin header	
IPMI	IPMI Solution	IPMI LAN port, IPMI VGA display	
Storage	Hard Drive (need to install RAID card)	12 x 2.5" / 3.5" drive bay (support SAS /SATA) 8 x 2.5" drive bay (support SAS /SATA)	
	M.2	1 x M.2 (PCIe Gen 3 x4) built in on SBC	
	U.2	2 x U.2 SSD drive bay compatible to SATA	
		1 GbE NIC: Intel® i210-AT with NCSI support 10 GbE NIC: Aquantia AQC107	
Networking	Ethernet IC	1 GbE NIC: Intel® i210-AT with NCSI support 10 GbE NIC: Aquantia AQC107	
I/O Interface	USB 3.2 Gen 1	4	
	USB 2.0	2	
	Ethernet	1 x 1GbE RJ-45 combo LAN ports / IPMI 1 x 10GbE RJ-45 LAN port	
	Display	1 x IPMI VGA display	
	Buttons	Power button	
Internal I/O	COM port	2 x RS-232 pin header	
	USB 3.2 Gen 1	2 x USB 3.2 Gen 1 (5Gb/s) pin header	
	USB 2.0	2 x USB 2.0 pin header, 1 x USB 2.0 type A	
Indicator	LEDs	10 GbE, Status, LAN, Storage Expansion Port Status	
	LCM	LCM, 2 buttons	
Expansion	PCIe	2 PCIe Gen 3 x16 1 PCIe Gen 3 x8 3 PCIe Gen 3 x4	5 PCIe Gen 3 x8 2 PCIe Gen 3 x4
Power	Power Input	100-240V AC, 47-63Hz	
	Power Consumption	In Operation: 285W	
	Type/Watt	Redundant Power 1200W	
Reliability	Operating Temperature	0~40°C	
	Relative Humidity	5 to 95% non-condensing, wet bulb: 27°C	
	Weight	23.59 kg	
	Certification	CE/FCC	
OS	Support OS	Windows server 2016 / Linux	

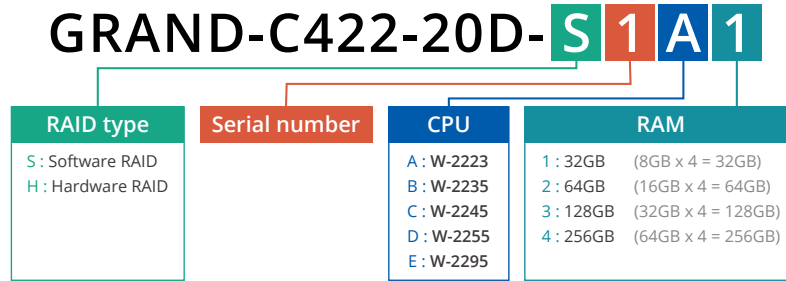
Packing List

Flat head screws (for 2.5" HDD)	Flat head screws (for 3.5" HDD)
1 x Cat5e LAN cable	2 x Power cord
1 x Cat6A LAN cable	1 x QIG

Options

Item	Part No.	Description
Slide Rail	RAIL-A02-90	Kingslide Rail kit, maximum load 90 kg
RAID Controller	7F200-SMARTRAID315424I-RS	Microsemi Adaptec SmartRAID 3154-24i

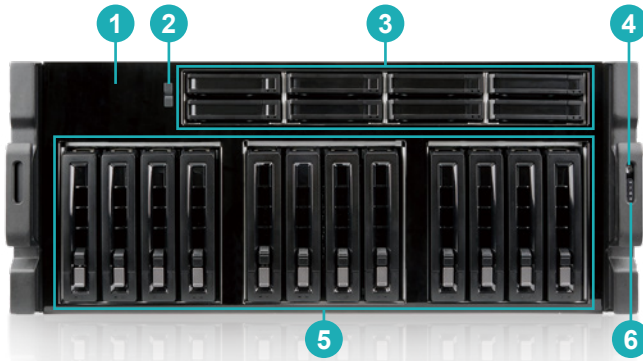
Model Naming Convention



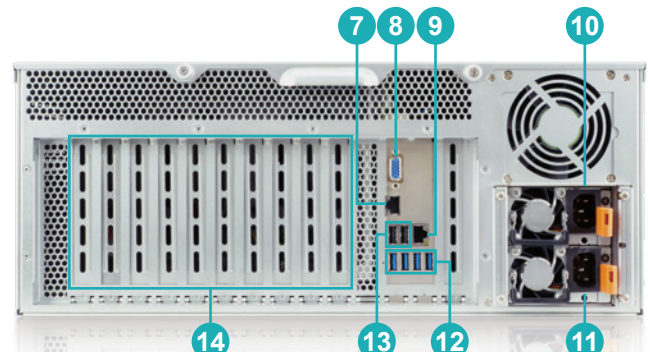
Ordering Information

Part No.	Description
GRAND-C422-20D-H1-R10	Barebone, 20-bay (12 x 3.5", 8 x 2.5") 4U Rackmount, support hardware RAID, Intel® Xeon W series with C422 chipset, 6 x PCIe expansion slot, and 1200W redundant PSU, RoHS
GRAND-C422-20D-H1A1-R10	20-bay (12 x 3.5", 8 x 2.5") 4U Rackmount, pre-install microsemi 3154-24i RAID controller, Intel® Xeon® W-2223 with C422 chipset, 32G DDR4 w/ECC, 6 x PCIe expansion slot, and 1200W redundant PSU, RoHS
GRAND-C422-20D-H2-R10	Barebone, 20-bay (12 x 3.5", 8 x 2.5") 4U Rackmount, support hardware RAID, Intel® Xeon W series with C422 chipset, 7 x PCIe expansion slot, and 1200W redundant PSU, RoHS
GRAND-C422-20D-H2A1-R10	20-bay (12 x 3.5", 8 x 2.5") 4U Rackmount, pre-install microsemi 3154-24i RAID controller, Intel® Xeon® W-2223 with C422 chipset, 32G DDR4 w/ECC, 7 x PCIe expansion slot, and 1200W redundant PSU, RoHS

I/O Interface

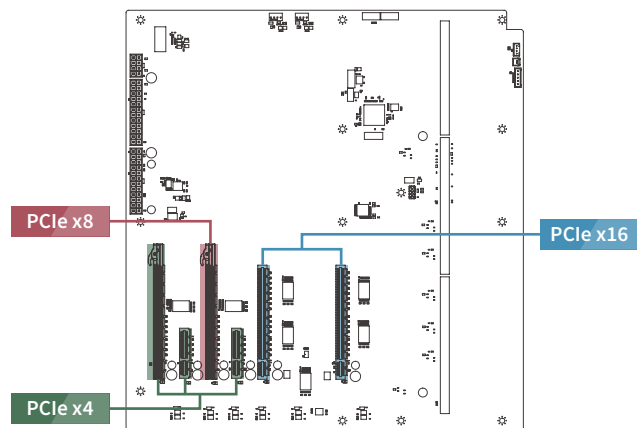


- 1 LCM
- 2 LCM control buttons
- 3 2.5" SAS/SATA drive bays
- 4 Power button
- 5 Twelve 2.5"/3.5" SAS/SATA drive bays
- 6 LED Indicator:
 - 10 10GbE
 - i System status
 - LAN
 - Storage expansion port status



- 7 10 Gigabit Ethernet port
- 8 IPMI VGA port
- 9 Gigabit Ethernet port with NCSI support
- 10 Power supply unit 1
- 11 Power supply unit 2
- 12 Four USB 3.1 Gen 1 ports
- 13 Two USB 2.0 ports
- 14 PCIe expansion slots

GRAND-C422-20D-H1



GRAND-C422-20D-H2

