

GRAND-C422-20D-S

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
- 6 x PCIe Slot, up to 4 dual width GPU cards
- Water cooling system on CPU
- Support two U.2 SSD
- Support one M.2 SSD M-key slot (NVMe PCIe 3.0 x4)
- Support 10GbE network
- IPMI remote management

Specifications

Model	GRAND-C422-20D-S	
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	12 x 2.5" / 3.5" drive bay 8 x 2.5" drive bay
	M.2	1 x 2280 M key (PCIe x4) built in on SBC
	U.2	2 x U.2 SSD drive bay compatible to SATA
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	4 x PCIe Gen 3 x8 2 x 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

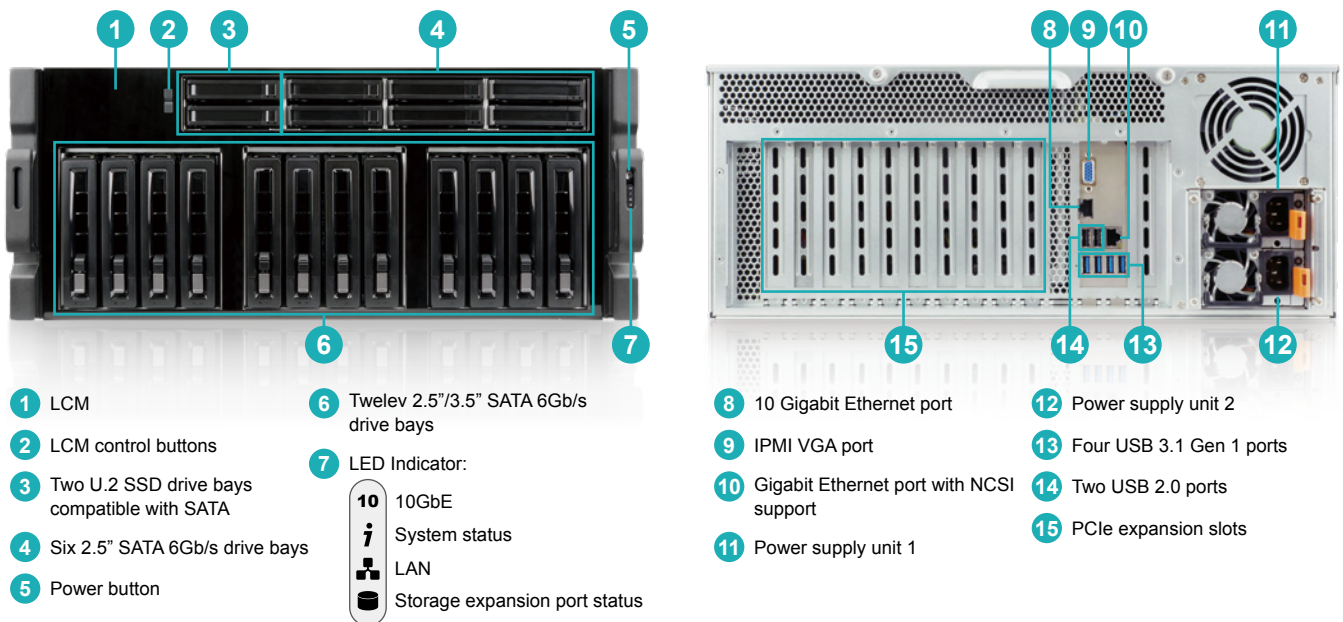
Options

Item	Part No.	Description
Slide Rail	RAIL-A02-90	Kingslide Rail kit, maximum load 90 kg

Ordering Information

Part No.	Description
GRAND-C422-20D-S1A1-R10	20-bay (12 x 3.5", 8 x 2.5") 4U Rackmount, Intel® Xeon® W-2123 with C422 chipset, 32G DDR4 w/ECC, 6 x PCIe expansion slot, and 1200W redundant PSU, RoHS
GRAND-C422-20D-S1B2-R10	20-bay (12 x 3.5", 8 x 2.5") 4U Rackmount, Intel® Xeon® W-2133 with C422 chipset, 64G DDR4 w/ECC, 6 x PCIe expansion slot, and 1200W redundant PSU, RoHS
GRAND-C422-20D-S1C3-R10	20-bay (12 x 3.5", 8 x 2.5") 4U Rackmount, Intel® Xeon® W-2145 with C422 chipset, 128G DDR4 w/ECC, 6 x PCIe expansion slot, and 1200W redundant PSU, RoHS
GRAND-C422-20D-S1D3-R10	20-bay (12 x 3.5", 8 x 2.5") 4U Rackmount, Intel® Xeon® W-2155 with C422 chipset, 128G DDR4 w/ECC, 6 x PCIe expansion slot, and 1200W redundant PSU, RoHS
GRAND-C422-20D-S1E4-R10	20-bay (12 x 3.5", 8 x 2.5") 4U Rackmount, Intel® Xeon® W-2195 with C422 chipset, 256G DDR4 w/ECC, 6 x PCIe expansion slot, and 1200W redundant PSU, RoHS

I/O Interface



- 1 LCM
- 2 LCM control buttons
- 3 Two U.2 SSD drive bays compatible with SATA
- 4 Six 2.5" SATA 6Gb/s drive bays
- 5 Power button
- 6 Twelve 2.5"/3.5" SATA 6Gb/s drive bays
- 7 LED Indicator:
 - 10 10GbE
 - i System status
 - LAN
 - Storage expansion port status

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

GRAND-C422-20D-S Dimensions (Unit: mm)

