

## GRAND-C610



Chassis	Dimensions (H x W x D)	88 x 442.5 x 530.5 mm
	System Fan	4 x 60 mm, 12v DC
	Chassis Construction	Rackmount
Motherboard	CPU	Dual sockets 2 x FCLGA2011-3 sockets-support Xeon® E5-2600 v3 family
	Chipset	C610
	Memory	Total slots : 16 RDIMM / LRDIMM ; Memory expandable up to 1TB DDR4 (64GB x 16)
	IPMI	IPMI Solution
Storage	Hard Drive	Front : 16 x 2.5"/3.5" drive bay Rear : 4 x 2.5" drive bay
	M.2	2
I/O Interface	USB 3.0	4
	USB 2.0	NA
	Ethernet	2 x GbE
	Display	1 x VGA
	LEDs	10 GbE, Status, LAN, Storage Expansion Port Status
	Buttons	Power button
Expansion	PCIe	4(3 x PCIe Gen 3 x 8, 1 x PCIe Gen 3 x16)
Power	Power Input	100-240V AC, 50/60Hz
Reliability	Operating Temperature	0~40°C
	Relative Humidity	5~95% non-condensing, wet bulb : 27°C
	Weight	22.42 kg
OS	Supported OS	Windows server 2016 Windows 10 Linux

## PUZZLE-IN004



Platform	Form Factor	1U
	CPU	Intel® Xeon® D-2145NT Processor 11M Cache, 1.90 GHz
	Chipset	Intergrated in CPU
Memory	Memory Technology	DDR4 2666MHz ECC(By CPU) or non-ECCR-DIMM
	Memory Capacity	Up to 128GB UDIMM, 256GB RDIMM, 512GB LDIMM
	Memory Socket	8 x 299-pin R-DIMM
Network and Security	Network acceleration and Security function	<ul style="list-style-type: none"> <li>Intel® AES New Instruction</li> <li>Intel® QuickAssist Technology (Intel® QAT)</li> <li>Intel® Virtualization Technology (Intel® VT)</li> <li>Intel® Trustes Execution Technology (Intel® TXT)</li> </ul>
	TPM	1 x TPM 2.0 Pin header
Networking	Ethermat IC	1 GbE NIC : Intel® i211-AT
	Ethermat Port	4 x 10 GbE, SFP+ 8 x 1GbE RJ45 LAN ports
	Network Module Slot	1 x Networking Module Slot
Expansion slot	PCIe slot	1 x mini PCIe (PCIe + USB 2.0) with SIM card
	PCIe mini card slot	1 x mini PCIe (PCIe + USB 2.0) with SIM card
	M.2	2 x m.2 M key 2260/2280 (PCIe x4)
Storage	Storage	2 x 2.5" SATA HDD/SSD bay
	eMMC	N/A
	SD card	N/A
External I/O	USB 3.1	1 x USB 3.1 Gen1
	USB 2.0	1 x USB 2.0
Internal I/O	Consol	1 x RJ45
	M.2	2 x m.2 M key 2260/2280(PCIe x4)
	HDMI	N/A
	USB	M.2
Power and Mechanical	Power Switch	1 x Power Switch
	Reset Button	1 x Reset Button
	Power Input	100V ~ 240V
	Type / Watt	Redundant Power 300W, 90V ~ 264V AC
	Processor Cooling	1 x Passive CPU Heatsink
	System Cooling	4 x Cooling Fans with Smart Fan
Physical and Environmental	Antenna Port	1 x Antenna port
	Storage Temperature	-10°C ~ 50°C
	Operating Temperature	0 ~ 40°C (32 ~ 104°F)
	Operating Humidity	Relative Humidity : 5% ~ 90% non-condensing
	Dimensions(W x H x D) (mm)	430 x 426 x 44.2
	Weight	7Kg
OS and Certifications	Certification	CE/FCC
	Operating System	Linux 18.04 (CentOS, Red Hat, Ubuntu, etc.)
Indicators	LCM	LCM, 2 buttons
	LED	1 x Power LED, 1 x Storage LED, 1 x Alert LED