

1U1S CLOUD SERVER PLATFORM



Transport CX GC68-B8036

B8036G68V4E4HR-LE



■ Front View



- B8036G68V4E4HR-LE
(4) 2.5" hot-swap (7mm NVMe) +
(4) 3.5" hot-swap (SATA)

■ Back View



- (1+1) 850W CRPS, 80+ Platinum

1U1S server platform designed for CSP Compute Applications

- Single Socket SP3
- (1) AMD EPYC™ 7002/7003 Series Processor
- (16) RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 3200, Up to 2048GB RDIMM/4096GB LRDIMM 3DS
- Up to (2) PCIe Gen.4 x16 slots via riser cards + (1) PCIe Gen.3 x16 OCP 2.0 slot
- (2) GbE + (1) IPMI ports
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 850W CRPS, 80+ Platinum

■ Summary Table

SKU	Motherboard	Storage
B8036G68V4E4HR-LE	S8036GM2NE-LE	(4) 2.5" hot-swap (7mm NVMe) +(4) 3.5" hot-swap (SATA)



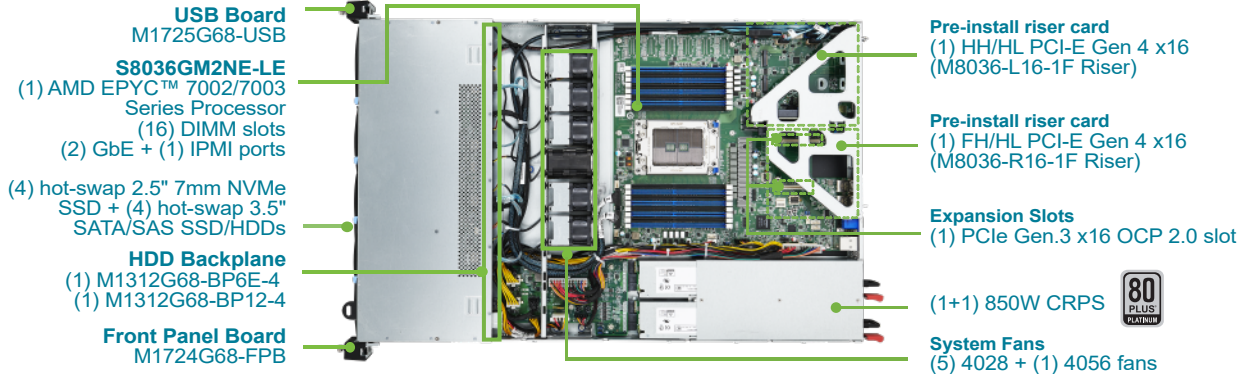
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Specifications

Top View



System	Form Factor	1U Rackmount
	Chassis Name	GC68A
	Dimension (D x W x H)	26.77" x 17.26" x 1.69" (680 x 438.5 x 43mm)
	Motherboard	S8036GM2NE-LE
	Gross Weight	20 kg (44 lbs)
Front Panel	Net weight	10.5kg (23.5 lbs)
	Buttons	(1) ID / (1) PWR w/ LED
	LEDs	(1) PWR / (1) ID
External Drive Bay	I/O Ports	(1) USB 3.1 Gen.1 port
	Q'ty / Type	(4) hot-swap 2.5" 7mm NVMe SSD + (4) hot-swap 3.5" SATA/SAS SSD/HDDs
	HDD backplane support	SAS 12Gb/s /SATA 6Gb/s /NVMe
	Supported HDD Interface	(4) SATA 6Gb/s & SAS* (4) NVMe
	Notification	The SAS/SATA HDD backplane is connected to onboard SATA connection by default. Please contact Tyan technical support if a discrete SAS HBA/RAID adapter is required.
System Cooling Configuration	FAN	(5) 4028 + (1) 4056 fans
Power Supply	Type	CRPS
	Input Range	AC 100-240V/ 12-6A
	Efficiency	80 plus Platinum
	Output Watts	850 Watts
Processor	Redundancy	1+1
	Q'ty / Socket Type	(1) AMD Socket SP3
	Supported CPU Series	(1) AMD EPYC™ 7002/7003 Series Processor
	Thermal Design Power (TDP) wattage	Max up to 240W, 280W CPUs follow Tyan AVL
Memory	Supported DIMM Qty	(16) DIMM slots
	DIMM Type / Speed	RDIMM DDR4 3200 w/ ECC up to 2,048GB (=128GB*16) / LRDIMM DDR4 3200 w/ ECC up to 4,096GB (=256GB*16) / 3DS DDR4 3200 w/ ECC up to 4,096GB (=256*16)
	Capacity	Up to 2,048GB RDIMM / 4,096GB LRDIMM 3DS
	Memory channel	8 Channels per CPU
	Memory voltage	1.2V
Expansion Slots	PCI-E	(1) PCIe Gen.4 x16 slot (FH/HL) / (1) PCIe Gen.4 x16 slot (HH/HL)
	Pre-install TYAN Riser Card (PCIe Gen.4)	(1) M8036-L16-1F for (1) HH/HL PCIe Gen.4 x16 slot (Left) / (1) M8036-R16-1F for (1) FH/HL PCIe Gen.4 x16 slot (Right)
	Others:	(1) PCIe Gen.3 x16 OCP v2.0 mezzanine slot
LAN	Port Q'ty	(2) GbE ports + (1) GbE dedicated for IPMI
	Controller	Broadcom BCM5720 LOM
	PHY Controller	Realtek RTL8211E

Storage	SATA	Connector	(4) SATA 7-pin connectors for (4) front SATA
		Controller	Marvell 9235
		Speed	6Gb/s
		RAID	N/A
	NVMe	Connector (M.2)	(2) 22110/2280 (by PCIe Gen.3 & SATA interface)
		Connector (U.2)	2) SFF-8654 for (4) NVMe ports
Graphic	Connector type	D-Sub 15-pin	
	Resolution	Up to 1920x1200	
Input / Output	Chipset	Aspeed AST2500	
	USB	(2) USB3.1 Gen.1 ports (@ rear) / (2) USB3.1 Gen.1 ports (via Cable) / (1) USB3.1 Gen.1 port (Type-A)	
	COM	(1) DB-9 port (COM1) + (1) header (COM2)	
	VGA	(1) D-Sub 15-pin port	
	RJ-45	(2) GbE ports, (1) dedicated GbE for IPMI	
TPM (Optional)	TPM Support	Please refer to our TPM supported list.	
System Monitoring	Chipset	Aspeed AST2500	
	Voltage	Monitors voltage for CPU, memory, chipset & power supply	
	Temperature	Monitors temperature for CPU & memory & system environment	
	LED	Over temperature warning indicator / Fan & PSU fail LED indicator	
Server Management	Others	Watchdog timer support	
	Onboard Chipset	Onboard Aspeed AST2500	
	AST2500 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub	
BIOS	AST2500 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface	
	Brand / ROM size	AMI / 32MB	
Operating System	Feature	Hardware Monitor / SMBIOS 3.0/PhP/Wake on LAN / Boot from USB device/PXE via LAN/Storage / Console Redirection / ACPI 6.1 / ACPI sleeping states S0, S5 / FAN speed control automatic	
	OS supported list	Please refer to our AVL support list	
Regulation	FCC (SDoC)	Class A	
	CE (DoC)	Class A	
	VCCI	Class A	
	RCM	Class A	
Operating Environment	CB/LVD	Yes	
	Operating Temp.	10° C ~ 35° C (50° F ~ 95° F)	
	Non-operating Temp.	-40° C ~ 70° C (-40° F ~ 158° F)	
RoHS	In/Non-operating Humidity	90%, non-condensing at 35° C	
	RoHS 6/6 Compliant	Yes	

(Specifications are subject to change without notice. Items pictured may only be representative.)

MiTAC Computing Technology Corp

USA
Tel: +1-510-651-8868
Fax: +1-510-651-7688

Taiwan
Tel: +886-3-327-5988
Fax: +886-3-327-6312

China
Shanghai Tel: +86-021-61431188 #1361
China Tel: +86-010-62381108 #2485

Japan
Tel: +81-3-3769-8311
Fax: +81-3-3769-8328

EMEA
Tel: +44 07540328523
Email: robin.daunter@tyan.com