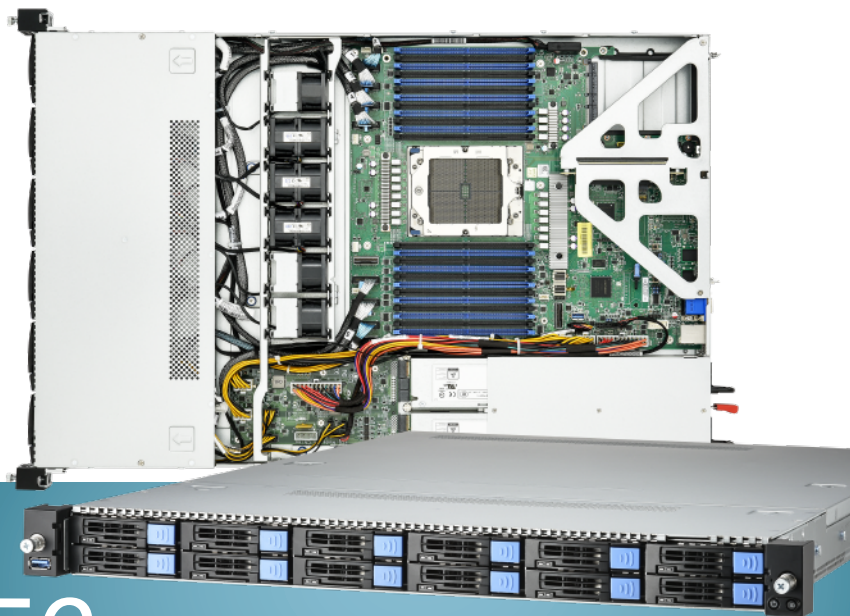


1U1S CLOUD SERVER



Transport CX GC68A-B8056

B8056G68AE12HR / B8056G68AE12HR-2T

AMD
EPYC



nvm
EXPRESS

DDR5

PCIe 5.0

Front View



- (12) NVMe U.2 w/(4) SATA 6G

Back View



- (1+1) 850W ERP1U 80+ Platinum

1U1S server platform for mainstream cloud applications

- Single Socket SP5
- (1) AMD EPYC™ 9004 Series Processor
- (24) Support up to 3,072GB RDIMM/3DS RDIMM DDR5 4800/4400/4000 memory
- Up to (2) PCIe Gen.5 x16 slots via riser cards + (1) PCIe Gen.4 x16 OCP 3.0 mezzanine slot
- (1) IPMI ports or (2) 10GbE + (1) IPMI ports(-2T sku)
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 850W CRPS, 80+ Platinum

Summary Table

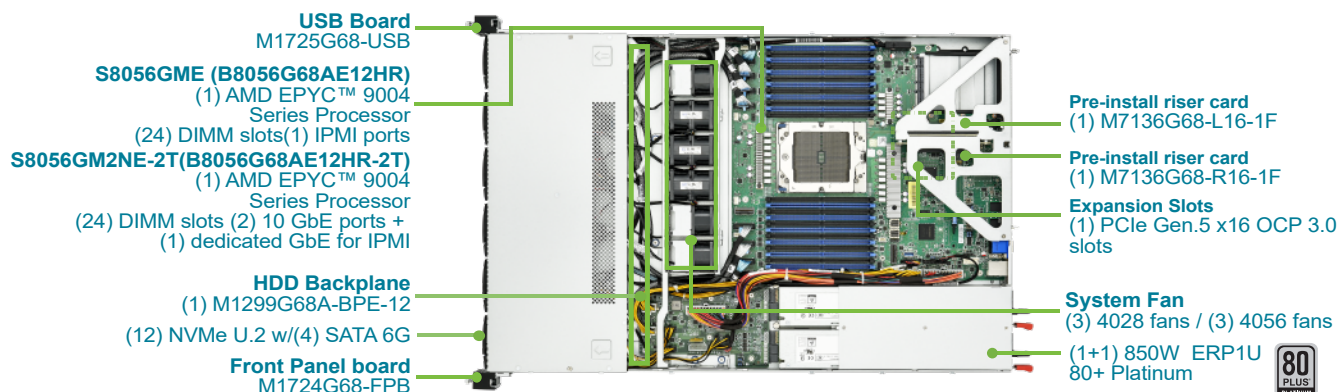
SKU	Motherboard	Storage
B8056G68AE12HR	S8056GME	(12) 2.5" hot-swap U.2 (up to 4x SATA)
B8056G68AE12HR-2T	S8056GM2NE-2T	(12) 2.5" hot-swap U.2 (up to 4x SATA)

Transport CX GC68A-B8056

B8056G68AE12HR

TYAN
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	S8056GME
Front Panel	Board Dimension	Prop. 14.18" x 12.16" (360.2 x 308.8mm)
	Buttons	(1) PWR w/ LED / (1) ID w/ LED
	LEDs	(1) ID / (1) PWR
External Drive Bay	I/O Ports	(1) USB 3.2 Gen.1 port
	Q'ty / Type	(12) 2.5" hot-swap NVMe HDD/SSDs with (4) 2.5" hot-swap SATA 6Gb/s
	Front Drive Bay Interface	(12) NVMe with (4) SATA 6Gb/s / SAS 12Gb/s ports
System Cooling Configuration	Front HDD Backplane Support	SAS 12Gb/s /SATA 6Gb/s /NVMe
	FAN	(3) 4028 fans / (3) 4056 fans
	Air Duct	Tailored Air Duct
Power Supply	Type	ERP1U
	Input Range	AC 100~240V/12~6A
	Efficiency	80 plus Platinum
	Output Watts	850 Watts
	Redundancy	1+1
Processor	Serviceability	Hot-swap
	Q'ty / Socket Type	(1) AMD Socket SP5
	Supported CPU Series	(1) AMD EPYC™ 9004 Series Processor
Memory	Thermal Design Power (TDP) wattage	Max up to 300W* (cTDP)
	Supported DIMM Qty	(24) DIMM slots
	DIMM Type / Speed	RDDR5 4800 w/ ECC (1.1V) when 2DPC/1DPC / LRDDR5 4800 w/ ECC (1.1V) when 2DPC/1DPC
	Capacity	Up to 3,072GB RDIMM/3DS RDIMM DDR5 4800/4400/4000 memory
	Memory channel	12 Channels per CPU
Expansion Slots	Memory voltage	1.1V
	PCI-E	(2) PCI-E Gen.5 x16 slot
	Pre-installed TYAN Riser Card (PCIe Gen.5)	(1) M7136G68-L16-1F (1) FH/HL PCIe Gen.5 x16 slot (Left) / (1) M7136G68-R16-1F for (1) FH/HL PCIe Gen.5 x16 slot (Right)
	Others:	(1) PCI-E Gen.5 x16 OCP 3.0 mezzanine slot
LAN	Port Q'ty	(1) GbE dedicated for IPMI
Storage	PHY Controller	Realtek RTL8211F
	SATA Connector	(1) SFF-TA-1016 (MCIO 8x) for (4) SATA ports
	Controller	Direct from AMD EPYC CPU
	Connector (M.2)	(2) 22110/2280 (by PCIe Gen.4 interface)
Graphic	NVMe Connector (U.2)	(6) SFF-TA-1016 (MCIO 8x) for (12) front NVMe
	Connector type	D-Sub 15-pin
	Resolution	Up to 1920x1200
Chipset	Chipset	Aspeed AST2600

Input /Output	USB	(1) USB3.2 Gen.1 conn. (Type-A) / (1) USB3.2 Gen.1 header / (1) USB3.2 Gen.1 ports (@ front) / (2) USB3.2 Gen.1 ports (@ rear)
	COM	(1) DB-9 COM port
	VGA	(1) D-Sub 15-pin port
	RJ-45	(1) GbE port dedicated for IPMI
TPM (Optional)	Button	UID Button / Power Button
	TPM Support	Please refer to our TPM supported list.
	Interface	SPI
System Monitoring	Chipset	Aspeed AST2600
	Voltage	Monitors voltage for CPU, memory, chipset & power supply
	Temperature	Monitors temperature for CPU & system environment
	LED	Over temperature warning indicator / Fan & PSU fail LED indicator / Over voltage warning indicator
	Others	Watchdog timer support
Server Management	Onboard Chipset	Onboard Aspeed AST2600
	AST2500 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub
	AST2500 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) /10/100/1000 Mb/s MAC interface
BIOS	Brand / ROM size	AMI / 64MB
	Feature	Hardware Monitor / FAN speed control automatic / Boot from USB device/PXE via LAN/Storage / Console Redirection / SMBIOS 3.3/PnP/Wake on LAN / ACPI 6.2 / ACPI sleeping states S0, S5
Operating System	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
	CB/LVD	Yes
Operating Environment	Operating Temp.	10° C ~ 35° C (50° F~ 95° F)
	Non-operating Temp.	- 40° C ~ 70° C (-40° F ~ 158° F)
	In/Non-operating Humidity	90%, non-condensing at 35° C
RoHS	RoHS 6/6 Complaint	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

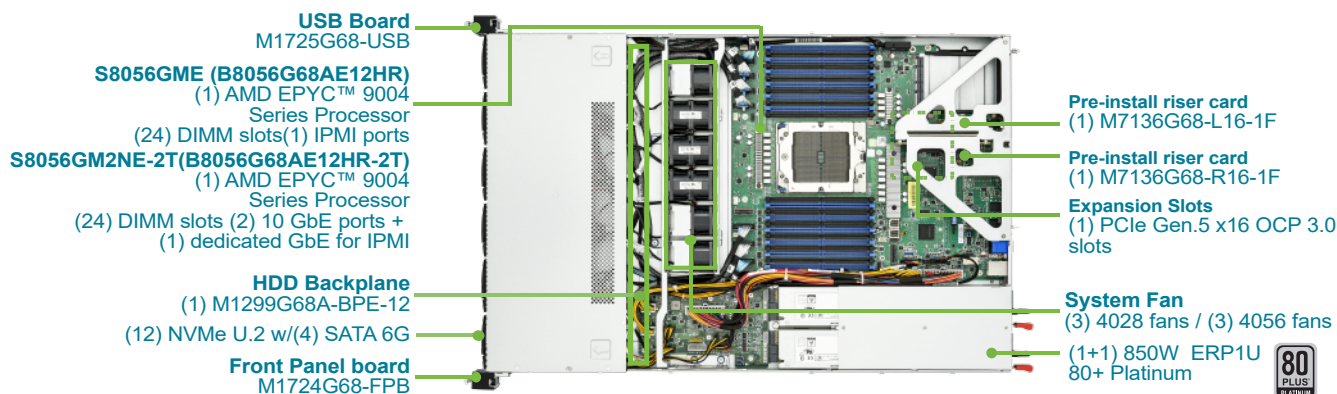
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	Board Dimension	Prop. 14.18" x 12.16" (360.2 x 308.8mm)
	Buttons	(1) PWR w/ LED / (1) ID w/ LED
External Drive Bay	LEDs	(1) ID / (1) PWR
	I/O Ports	(1) USB 3.2 Gen.1 port
	Q'ty / Type	(12) 2.5" hot-swap NVMe HDD/SSDs with (4) 2.5" hot-swap SATA 6Gb/s
System Cooling Configuration	Front Drive Bay Interface	(12) NVMe with (4) SATA 6Gb/s / SAS 12Gb/s ports
	Front HDD Backplane Support	SAS 12Gb/s /SATA 6Gb/s /NVMe
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Processor	Efficiency	80 plus Platinum
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	Others:	(1) PCI-E Gen.5 x16 OCP 3.0 mezzanine slot
Graphic	Port Q'ty	(2) 10GbE ports + (1) GbE dedicated for IPMI
	Controller	Intel X710-AT2
	PHY Controller	Realtek RTL8211F
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	VGA	(1) D-Sub 15-pin port
TPM (Optional)	RJ-45	(2) 10 GbE ports + (1) dedicated GbE for IPMI
	Button	UID Button / Power Button
	TPM Support Interface	Please refer to our TPM supported list.
System Monitoring	Chipset	Aspeed AST2600
	Voltage	Monitors voltage for CPU, memory, chipset & power supply
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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