

1U1S SERVER PLATFORM



Thunder CX GX38-B5550

B5550G38V2-2 / B5550G38V2-4



■ Front View



- B5550G38V2-2 & B5550G38V2-4
- (2) 3.5" Fixed SATA 6G HDDs

■ Back View



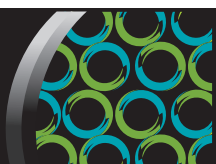
- B5550G38V2-2 & B5550G38V2-4
- (1) 250W Single PSU, 80+ Bronze

1U1S Compact Server Platform Designed for CSP Portal / Edge Server Deployments

- Single Socket H4 (LGA1151)
- (1) Intel® Xeon® E-2200/-2100, 9th/8th Gen. Core i3 processor, Pentium G5000, Celeron G4900 series processors
- (4) DIMM slots supporting DDR4 ECC UDIMM 2666/2400
- (4) GbE + (1) IPMI ports (B5550G38V2-4)
- (2) GbE + (1) IPMI ports (B5550G38V2-2)
- (1) PCI-E Gen 3 x16 slot
- Onboard BMC w/ IPMI and iKVM support
- (1) 250W Single PSU, 80+ Bronze

■ Summary Table

SKU	Networking	Thermal Solution
B5550G38V2-2	(2)1000Base-T	(3) 4028
B5550G38V2-4	(4)1000Base-T	(3) 4028



Thunder CX GX38-B5550

B5550G38V2-2

TYAN

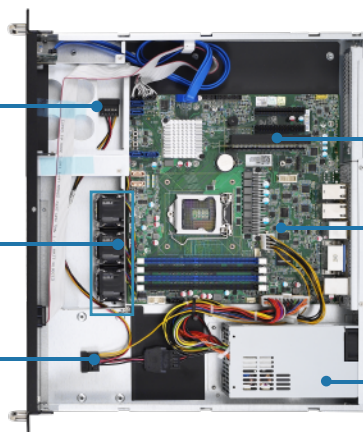
Specifications

Top View

(1) 3.5" Fixed SATA 6G HDD

System Fan
(3) 4cm fans

(1) 3.5" Fixed SATA 6G HDD



Pre-install TYAN Riser Card

(1) M2091 riser card for
(1) PCI-E Gen3 x16 slot (left)

S5550GM4NR

(1) Intel® Xeon® E-2200/-2100 or 9th/8th Gen.
Core i3, Pentium G5000,
Celeron G4900 series processor
(4) DDR4 ECC UDIMM 2666/2444 slots
(4) GbE + (1) Dedicate IPMI GbE ports

(1) 250W Single PSU, 80+ Bronze



System	Form Factor	1U Rackmount	
	Chassis Name	GX38	
	Dimension (D x W x H)	15" x 16.9" x 1.75" (381 x 428 x 44.4mm)	
	Motherboard	S5550GM2NR	
	Gross Weight	9.1 kg (20 lbs)	
Front Panel	Buttons	(1) PWR	
	LEDs	(1) PWR, (2) LAN & (1) BMC	
Internal Drive Bay	I/O Ports	(2) USB 3.1 Gen1 ports	
	Q'ty / Type	(2) 3.5" Fixed HDDs	
System Cooling Configuration	Supported HDD Interface	(2) SATA 6Gb/s	
	FAN	(3) 4028 fans	
Power Supply	Type	FlexATX	
	Input Range	AC 100-240V/3.5A	
	Efficiency	PFC / 80+ Bronze	
Processor	Output Watts	250 Watts	
	Supported CPU Series	(1) Intel® Xeon® E-2200/-2100, 9 th /8 th Gen. Core i3, Pentium G5000, Celeron G4900 series processors	
Chipset	Thermal Design Power (TDP) wattage	Max up to 95W	
	Chipset	Intel® C242	
Memory	Supported DIMM Qty	(4) DIMM slots	
	DIMM Type / Speed	UDIMM ECC DDR4 2666/2400	
	Capacity	Up to 128GB	
	Memory channel	2 Channels	
Expansion Slots	Memory voltage	1.2V	
	PCI-E	(1) FH/HL PCI-E Gen3 x16 slot	
	Pre-install TYAN Riser Card (PCI-E Gen3)	(1) M2091 riser card for (1) PCI-E Gen3 x16 slot (left)	
LAN	Port Q'ty	(2) GbE ports + (1) GbE dedicated for IPMI	
	Controller	Intel® I210-AT	
	PHY	Realtek® RTL8211E	
Storage	SATA	Connector	(2) SATA-DOM
		Controller	Intel® C242
		Speed	6Gb/s
		RAID	RAID 0/1 (Intel® RSTe)
Graphic	Connector type	D-Sub 15-pin	
	Resolution	Up to 1920x1200	
	Chipset	Aspeed AST2500	

Input /Output	USB	(2) USB3.1 Gen1 ports (@ front) (2) USB3.1 Gen2 ports (@ rear) (2) USB3.1 Gen1 ports (@ rear)
	COM	(1) DB-9 COM port
	VGA	(1) D-Sub 15-pin
	RJ-45	(2) GbE ports, (1) dedicated GbE for IPMI
TPM (Optional)	SATA	(2) SATA-DOM connectors
	TPM Support	Please refer to our TPM supported list.
System Monitoring	Chipset	Onboard Aspeed AST2500
	Voltage	Monitors voltage for CPU, memory, chipset & power supply
	Temperature	Monitors temperature for CPU & memory & system environment
	LED (On system front panel)	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, PXE boot support, ACPI sleeping states S3,S4,S5, User Configurable FAN PWM Duty Cycle, Console Redirection, ACPI 6.1, SMBIOS 3.1/PnP/Wake on LAN & iSCSI support
	OS supported list	Please refer to our AVL support lists.
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
TYAN Business Unit

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

Thunder CX GX38-B5550

B5550G38V2-4

TYAN

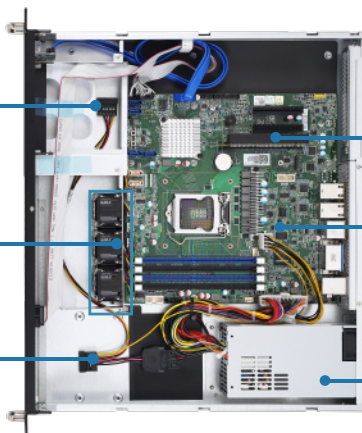
Specifications

Top View

(1) 3.5" Fixed SATA 6G HDD

System Fan
(3) 4cm fans

(1) 3.5" Fixed SATA 6G HDD



Pre-install TYAN Riser Card

(1) M2091 riser card for
(1) PCI-E Gen3 x16 slot (left)

S5550GM4NR

(1) Intel® Xeon® E-2200/-2100 or 9th/8th Gen. Core i3, Pentium G5000, Celeron G4900 series processor
(4) DDR4 ECC UDIMM 2666/2444 slots
(4) GbE + (1) Dedicate IPMI GbE ports

(1) 250W Single PSU, 80+ Bronze



System	Form Factor	1U Rackmount	
	Chassis Name	GX38	
	Dimension (D x W x H)	15" x 16.9" x 1.75" (381 x 428 x 44.4mm)	
	Motherboard	S5550GM4NR	
	Gross Weight	9.1 kg (20 lbs)	
Front Panel	Net weight	5.3 kg (11.6 lbs)	
	Buttons	(1) PWR	
	LEDs	(1) PWR, (2) LAN & (1) BMC	
Internal Drive Bay	I/O Ports	(2) USB 3.1 Gen1 ports	
	Q'ty / Type	(2) 3.5" Fixed HDDs	
System Cooling Configuration	Supported HDD Interface	(2) SATA 6Gb/s	
	FAN	(3) 4028 fans	
Power Supply	Type	FlexATX	
	Input Range	AC 100-240V/3.5A	
	Efficiency	PFC / 80+ Bronze	
Processor	Output Watts	250 Watts	
	Supported CPU Series	(1) Intel® Xeon® E-2200/-2100, 9 th /8 th Gen. Core i3, Pentium G5000, Celeron G4900 series processors	
	Thermal Design Power (TDP) wattage	Max up to 95W	
Chipset	Chipset	Intel® C242	
Memory	Supported DIMM Qty	(4) DIMM slots	
	DIMM Type / Speed	UDIMM ECC DDR4 2666/2400	
	Capacity	Up to 128GB	
	Memory channel	2 Channels	
Expansion Slots	Memory voltage	1.2V	
	PCI-E	(1) FH/HL PCI-E Gen3 x16 slot	
	Pre-install TYAN Riser Card (PCI-E Gen3)	(1) M2091 riser card for (1) PCI-E Gen3 x16 slot (left)	
LAN	Port Q'ty	(4) GbE ports + (1) GbE dedicated for IPMI	
	Controller	Intel® I210-AT	
	PHY	Realtek® RTL8211E	
Storage	SATA	Connector	(2) SATA-DOM
		Controller	Intel® C242
		Speed	6Gb/s
		RAID	RAID 0/1 (Intel® RSTe)
Graphic	Connector type	D-Sub 15-pin	
	Resolution	Up to 1920x1200	
	Chipset	Aspeed AST2500	

Input / Output	USB	(2) USB3.1 Gen1 ports (@ front) (2) USB3.1 Gen2 ports (@ rear) (2) USB3.1 Gen1 ports (@ rear)
	COM	(1) DB-9 COM port
	VGA	(1) D-Sub 15-pin
	RJ-45	(4) GbE ports, (1) dedicated GbE for IPMI
TPM (Optional)	SATA	(2) SATA-DOM connectors
	TPM Support	Please refer to our TPM supported list.
System Monitoring	Chipset	Onboard Aspeed AST2500
	Voltage	Monitors voltage for CPU, memory, chipset & power supply
	Temperature	Monitors temperature for CPU & memory & system environment
	LED (On system front panel)	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, PXE boot support, ACPI sleeping states S3,S4,S5, User Configurable FAN PWM Duty Cycle, Console Redirection, ACPI 6.1, SMBIOS 3.1/PnP/Wake on LAN & iSCSI support
	OS supported list	Please refer to our AVL support lists.
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 Complaint	Yes

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

MiTAC Computing Technology Corp
TYAN Business Unit

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

