

1U1S SERVER/ STORAGE PLATFORM



Thunder SX GT62F-B5630

B5630G62FV2E8HR / B5630G62FV6E4HR
B5630G62FV10HR / B5630G62FV6E4H



Front View



- Max up to (10) 2.5" Hot-Swap SSD/HDDs (-V10HR SKU)



- (2) 2.5" Hot-Swap SSD/HDDs + (8) NVMe devices (-V2E8HR SKU)

Back View



- (1+1) 650W RPSU, 80 PLUS Platinum (-R SKU only)



- (1) 500W PSU, 80 PLUS Platinum

1U designed for hybrid NVMe/SATA cache storage applications

- Max up to (10) 2.5" Hot-Swap SSD/HDDs (-V10HR SKU) or Max up to (2) 2.5" Hot-Swap SSD/HDDs + (8) NVMe devices (-V2E8HR SKU)
- Single LGA3647 socket supports (1) Intel® Xeon® Scalable Processor Family
- (12) DIMM slots DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666
- Support up to 384GB RDIMM/ 768GB LRDIMM/ 1,536GB RDIMM 3DS/LRDIMM 3DS
*Follow latest Intel DDR4 Memory POR
- Max up to (1) PCI-E Gen3 x16 slot (-V10HR SKU only)
(1) PCI-E Gen3 x8 OCP 2.0 slot (con.A+con.B+con.C)
- (1) PHY port (via Realtek® RTL8211E)
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 650W RPSU, 80 PLUS Platinum (-R SKU only)
(1) 500W PSU, 80 PLUS Platinum



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Specifications

Top View

Front Panel Board (M1716G75-FPB)

Max up to (10) 2.5" Hot-Swap SSD/HDDs (-V10HR SKU) or (2) 2.5" Hot-Swap SSD/HDDs + (8) NVMe devices (-V2E8HR SKU)

SAS 12G/SATA 6G NVMe Backplane or SAS/SATA 6G/NVMe Backplane
M1274G62B-BP12E-10 or M1286G62F-BP12E-10 (-V10HR SKU only)

Easy-swap System Fans (5) 4028

(1) Pre-install M2091 riser card
(1) Pre-install M2093 w/
(2) PCI-E x8 SFF-8611 OcuLink connectors for (4) NVMe ports (-V2E8HR SKU only)

(1) PCI-E Gen3 x8 OCP 2.0 slot (con.A+con.B+con.C)

S5630GMRE
(1) Intel® Xeon® Scalable Processor Family
(12) DDR-4 DDR4 RDIMM/RDIMM 3DS/LRDIMM/ LRDIMM 3DS 2666 , max Up to 384GB RDIMM
(1) PHY (via Realtek® RTL8211E)

(1+1) 650W RPSU, 80 PLUS Platinum (-R SKU only) or (1) 500W PSU, 80 PLUS Platinum

System	Form Factor	1U Rackmount
	Chassis Name	GT62F
	Dimension (D x W x H)	24.6" x 17.2" x 1.72" (625.4 x 436 x 43.6mm)
	Motherboard	S5630GMRE
	Gross Weight	20 kg (44 lbs)
	Net weight	10.5kg (23.5 lbs)
Front Panel	Buttons	(1) PWR / (1) RST / (1) ID
	LEDs	(1) PWR, (1) HDD, (1) IPMI/Warning
	I/O Ports	(2) USB 3.0 port
External Drive Bay	Type / Q'ty	2.5" Hot-Swap SSD/HDDs/ (10) (-V10HR SKU) 2.5" Hot-Swap SSD/HDDs + NVMe/ (2) + (8) (-V2E8HR SKU) 2.5" Hot-Swap SSD/HDDs + NVMe/ (6) + (4) (-V6E4H/R SKU)
	HDD backplane support	SAS 12Gb/s, SATA 6Gb/s, NVMe or SAS/SATA 6Gb/s, NVMe (-V10HR SKU only)
	Supported HDD Interface	(10) SATA 6Gb/s (-V10HR SKU) (2) SATA 6Gb/s + (8) NVMe (-V2E8HR SKU) (6) SATA 6Gb/s + (4) NVMe (-V6E4H/R SKU)
System Cooling Configuration	FAN	(5) 4cm fans
Power Supply	Type	RPSU or PSU
	Input Range	100-127V AC/8A, 200-240V AC/ 4A
	Efficiency	80-PLUS Platinum
	Output Watts	650 Watts (-R SKU only) or 500 Watts
Processor	Redundancy	1+1 (-R SKU only)
	Supported CPU Series	(1) Intel® Xeon® Scalable Processor Family
	Thermal Design Power (TDP) wattage	Max up to 205W
Chipset	Chipset	Intel® C621
	Super I/O	-
Memory	Supported DIMM Qty	(12) DIMM slots
	DIMM Type / Speed	DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666
	Capacity	Up to 384GB RDIMM/ 768GB LRDIMM/ 1,536GB RDIMM 3DS/LRDIMM 3DS *Follow latest Intel® DDR4 Memory POR
	Memory channel	6 Channels
	Memory voltage	1.2V
Expansion Slots	PCI-E	(1) PCI-E Gen3 x16 slot (-V10HR SKU only)
	Pre-install TYAN Riser Card	M2091, PCI-E x16 1U riser card (left) (-V2E8HR SKU only)
	Pre-install TYAN OCP Riser Card	-
	Others	(1) PCI-E Gen3 x8 OCP 2.0 slot (con.A+con.B+con.C)
LAN	Port Q'ty	(1) PHY
	PHY Controller	Realtek® RTL8211E

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

Storage	SATA	Connector	(2) Mini-SAS HD (8-ports)
		Controller	Intel® C621
		Speed	6.0 Gb/s
	sSATA	RAID	RAID 0/1/10/5 (Intel RSTe)
		Connector	(2) 8-pin SATA/SATA-DOM, (1) Mini-SAS HD (4-ports)
		Controller	Intel® C621
NVMe	Speed	6.0 Gb/s	
	RAID	RAID 0/1/10/5 (Intel® RST)	
	Connector type	(2) PCI-E x4 SFF-8611 OcuLink connectors for (4) NVMe ports (1) M2093 w/ (2) PCI-E x8 SFF-8611 OcuLink connectors for (4) NVMe ports (-V2E8HR SKU only)	
Graphic	Resolution	D-Sub 15-pin	
	Chipset	Up to 1920x1200	
Input / Output	Chipset	Aspeed AST2500	
	USB	(2) USB3.0 ports (2 at rear), (2) USB3.0 ports (2 at front), (1) USB3.0 TYPE-A	
	COM	(1) DB-9 port (COM1) + (1) header (COM2)	
	VGA	(1) D-Sub 15-pin	
	RJ-45	(1) GbE port dedicated for IPMI	
TPM (Optional)	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	IPMI 2.0 compliant baseboard management controller (BMC), Supports storage over IP and remote platform-flash, USB 2.0 virtual hub	
BIOS	AST2500 IPMI Feature	24-bit high quality video compression, 10/100/1000 Mb/s MAC interface	
	Brand / ROM size	AMI / 32MB	
Operating System	Feature	Hardware Monitor, SMBIOS 3.0/PnP/Wake on LAN, Boot from USB device/PXE via LAN/Storage, User Configurable FAN PWL Duty Cycle, Console Redirection, ACPI sleeping states S4,S5, ACPI 6.1	
	OS supported list	Please refer to our Intel OS supported list.	
Regulation	FCC (DoC)	Class A	
	CE (DoC)	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 Compliant	Yes	

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