1U1S SERVER/ STORAGE PLATFORM
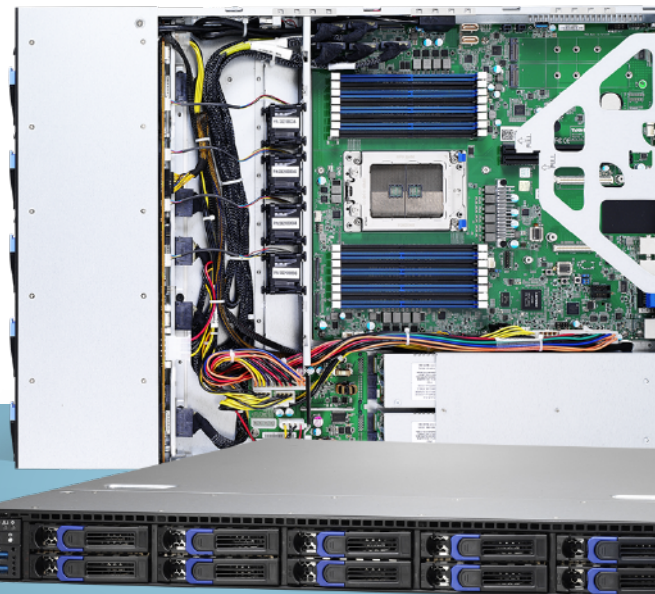
Thunder SX
GT62F-B8026

B8026G62FE10HR / B8026G62FV10HR-LE

AMD EPYC · 7nm · 64 Core · 80 PLUS PLATINUM · nvm EXPRESS

■ Front View

• (10) hot-swap 2.5" SATA 6G devices (-V10HR SKU)

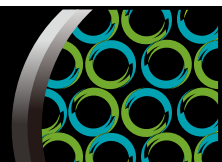• (10) hot-swap 2.5" NVMe U.2 devices (-E10HR SKU)

■ Back View

• (1+1) 650W RPSU, 80-Plus Platinum

1U Single-socket AMD EPYC storage server platform supports all-flash deployment

● Single Socket SP3
● (1) AMD EPYC™ 7001 / 7002 Series Processor
● (16) DIMM slots DDR4 ECC RDIMM/LRDIMM 2666/2400
● (2) GbE + (1) PHY ports
● Onboard BMC w/ IPMI and iKVM support
● (1+1) Hot-swap 650W RPSU, 80+ Platinum

■ Summary Table

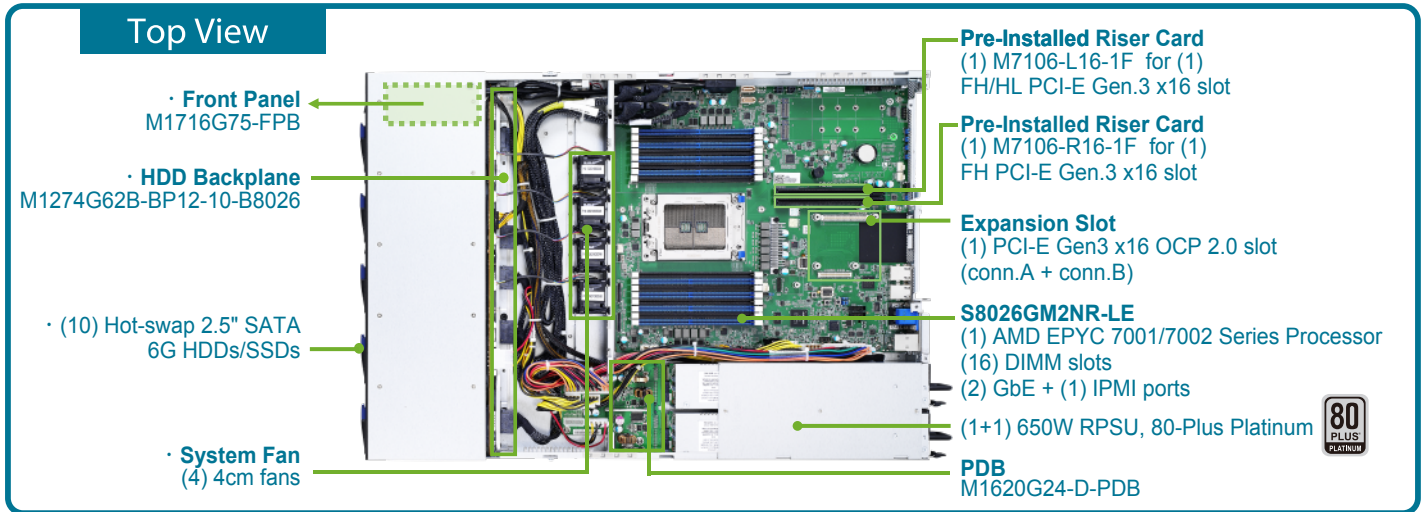| SKU	Motherboard	Storage
B8026G62FE10HR	S8026GM2NRE	(10) Hot-swap NVMe U.2 + (2) M.2
B8026G62FV10HR-LE	S8026GM2NR-LE	(10) Hot-swap SATA 6G + (2) M.2

Top View

- **Front Panel**
  M1716G75-FPB
- **HDD Backplane**
  M1274G62B-BP12-10-B8026
- **(10) Hot-swap 2.5" SATA 6G HDDs/SSDs**
- **System Fan**
  (4) 4cm fans

- **Pre-Installed Riser Card**
  (1) M7106-L16-1F for (1) FH/HL PCI-E Gen.3 x16 slot
- **Pre-Installed Riser Card**
  (1) M7106-R16-1F for (1) FH PCI-E Gen.3 x16 slot
- **Expansion Slot**
  (1) PCI-E Gen3 x16 OCP 2.0 slot (conn.A + conn.B)
- **S8026GM2NR-LE**
  (1) AMD EPYC 7001/7002 Series Processor
  (16) DIMM slots
  (2) GbE + (1) IPMI ports
- (1+1) 650W RPSU, 80-Plus Platinum
- **PDB**
  M1620G24-D-PDB

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	S8026GM2NR-LE
	Gross Weight	20 kg (44 lbs)
	Net weight	10.5kg (23.5 lbs)
Front Panel	Buttons	(1) RST / (1) ID / (1) PWR w/ LED
	LEDs	(1) PWR / (1) HDD / (2) LAN / (1) BMC event
	I/O Ports	(2) USB 3.0 ports
External Drive Bay	Q'ty / Type	(10) 2.5" Hot-Swap SSD/HDD
	HDD backplane support	SAS 12Gb/s & SATA 6Gb/s
	Supported HDD Interface	(10) SATA 6Gb/s
	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 installed is required.
System Cooling	FAN	(4) 4cm fans
Power Supply	Type	RPSU
	Input Range	AC 100-240V/9A
	Efficiency	80+ Platinum
	Output Watts	650 Watts
	Redundancy	1+1
Processor	Q'ty / Socket Type	(1) AMD Socket SP3
	Supported CPU Series	(1) AMD EPYC™ 7001/7002 Series Processor
	Thermal Design Power (TDP) wattage	Max up to 180W
Memory	Supported DIMM Qty	(16) DIMM slots
	DIMM Type / Speed	DDR4 ECC RDIMM/LRDIMM 2666/2400
	Capacity	Up to 1,024GB RDIMM/LRDIMM
	Memory channel	8 Channels
	Memory voltage	1.2V
	Notification	LRDIMM is not supported when AMD EPYC™ 7002 Series Processors deployed in all configurations. Please contact Tyan Technical Support for more details.
Expansion Slots	PCI-E	(2) PCI-E Gen3 x16 slots (FH / HL)
	Pre-install TYAN Riser Card (PCI-E Gen3)	(1) M7106-L16-1F for (1) PCI-E Gen3 x16 slot (1) M7106-R16-1F for (1) PCI-E Gen3 x16 slot
	Others:	(1) PCI-E Gen3 x16 OCP 2.0 slot (conn.A+conn.B)
LAN	Port Q'ty	(2) GbE ports, (1) PHY dedicated for IPMI
	Controller	Broadcom BCM5720
	PHY Controller	Realtek® RTL8211E

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

Storage	SATA	Connector	(10) SATA
		Controller	Direct from AMD EPYC CPU
		Speed	6Gb/s
		RAID	N/A
		Notification	The 2 right-most SATA SSDs/HDDs (#8 & #9) are not available when AMD EPYC™ 7002 Series Processors deployed in all configurations. Please contact Tyan Technical Support for more details.
	NVMe	Connector (M.2)	(2) 22110/2280/2260/2242 (by PCI-E & SATA interface)
		Notification	2 onboard M.2 connectors shall support NVMe only when AMD EPYC™ 7002 Series Processors deployed in all configurations. Please contact Tyan Technical Support for more details.
Graphic		Connector type	D-Sub 15-pin
		Resolution	Up to 1920x1200
		Chipset	Aspeed AST2500
Input /Output		USB	(2) USB3.0 ports (@ rear) (2) USB3.0 ports (@ front)
		COM	(1) DB-9 port (COM1) + (1) header (COM2)
		VGA	(1) D-Sub 15-pin
		RJ-45	(2) GbE ports (1) GbE 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
		Others	Watchdog timer support
Server Management		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
		AST2500 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface
BIOS		Brand / ROM size	AMI / 32MB
		Feature	Hardware Monitor, Boot from USB device/PXE via LAN/Storage, User Configurable FAN PWM Duty Cycle, Console Redirection, ACPI 6.1, SMBIOS 3.1/PnP/Wake on LAN, ACPI sleeping states S0,S1,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

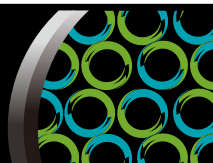## MiTAC Computing Technology Corp
TYAN Business Unit

Thunder SX
GT62F-B8026

B8026G62FE10HR

TYAN
Specifications

Top View

· **Front Panel**
M1716G75-FPB

· **HDD Backplane**
M1286G62F-BP12E-10

· **(10) hot-swap 2.5" NVMe**
U.2 devices

· **System Fan**
(4) 4cm fans

Pre-Installed Riser Card
(1) M7106-L16-1F for (1)
FH/HL PCI-E Gen.3 x16 slot

Pre-Installed Riser Card
(1) M7106-R16-1F for (1)
FH PCI-E Gen.3 x16 slot

Expansion Slot
(1) PCI-E Gen3 x16 OCP 2.0 slot
(conn.A + conn.B)

S8026GM2NRE
(1) AMD EPYC 7001/7002 Series Processor
(16) DIMM slots
(2) GbE + (1) IPMI ports

(1+1) 650W RPSU, 80-Plus Platinum

PDB
M1620G24-D-PDB

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	S8026GM2NRE
	Gross Weight	20 kg (44 lbs)
	Net weight	10.5kg (23.5 lbs)
Front Panel	Buttons	(1) RST / (1) ID / (1) PWR w/ LED
	LEDs	(1) PWR / (1) HDD / (2) LAN / (1) BMC event
	I/O Ports	(2) USB 3.0 ports
External Drive Bay	Q'ty / Type	(10) 2.5" Hot-Swap SSD/HDD
	HDD backplane support	NVMe
	Supported HDD Interface	(10) 2.5" NVMe
System Cooling Configuration	FAN	(4) 4cm fans
Power Supply	Type	RPSU
	Input Range	AC 100-240V/9A
	Efficiency	80+ Platinum
	Output Watts	650 Watts
	Redundancy	1+1
Processor	Q'ty / Socket Type	(1) AMD Socket SP3
	Supported CPU Series	(1) AMD EPYC™ 7001/7002 Series Processor
	Thermal Design Power (TDP) wattage	Max up to 180W
Memory	Supported DIMM Qty	(16) DIMM slots
	DIMM Type / Speed	DDR4 ECC RDIMM/LRDIMM 2666/2400
	Capacity	Up to 1,024GB RDIMM/LRDIMM
	Memory channel	8 Channels
	Memory voltage	1.2V
	Notification	LRDIMM is not supported when AMD EPYC™ 7002 Series Processors deployed in all configurations. Please contact Tyan Technical Support for more details.
Expansion Slots	PCI-E	(2) PCI-E Gen3 x16 slots (FH / HL)
	Pre-install TYAN Riser Card (PCI-E Gen3)	(1) M7106-L16-1F for (1) PCI-E Gen3 x16 slot (1) M7106-R16-1F for (1) PCI-E Gen3 x16 slot
	Others:	(1) PCI-E Gen3 x16 OCP 2.0 slot (conn.A+conn.B)
LAN	Port Q'ty	(2) GbE ports, (1) PHY dedicated for IPMI
	Controller	Broadcom BCM5720
	PHY Controller	Realtek® RTL8211E

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

Storage	NVMe	Connector (U.2)	(5) SFF-8612 for (10) NVMe ports
		Connector (M.2)	(2) 22110/2280/2260/2242 (by PCI-E & SATA interface)
		Notification	2 onboard M.2 connectors shall support NVMe only when AMD EPYC™ 7002 Series Processors deployed in all configurations. Please contact Tyan Technical Support for more details.
Graphic		Connector type	D-Sub 15-pin
		Resolution	Up to 1920x1200
		Chipset	Aspeed AST2500
Input /Output		USB	(2) USB3.0 ports (@ rear) (2) USB3.0 ports (@ front)
		COM	(1) DB-9 port (COM1) + (1) header (COM2)
		VGA	(1) D-Sub 15-pin
		RJ-45	(2) GbE ports (1) GbE 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
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		LED (On system front panel)	Over temperature warning indicator, Fan & PSU fail LED indicator
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Server Management		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
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BIOS		Brand / ROM size	AMI / 32MB
		Feature	Hardware Monitor, Boot from USB device/PXE via LAN/Storage, User Configurable FAN PWM Duty Cycle, Console Redirection, ACPI 6.1, SMBIOS 3.1/PnP/Wake on LAN, ACPI sleeping states S0,S1,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

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