

2S 2U GPU SERVER

R2520G6

R2520G6U2BC
R2520G6U2XD
R2520G635XD
R2520G635HYBD



2U2S server platform with maximum memory capacity for high-performance in-memory computing

Front View



R2520G6U2BC
(8) 2.5" Hot-Swap NVMe SSDs



R2520G6U2XD
(24) 2.5" Hot-Swap NVMe SSDs



R2520G635XD
(12) 3.5" Hot-Swap HDDs
R2520G635HYBD
(12) 3.5" Hot-Swap HDDs w/ (4) NVMe

Back View



(1+1) 1,300W RPSU, 80+ Titanium (R2520G6U2BC)
(1+1) 2,000W RPSU, 80+ Titanium (R2520G6U2XD)/
(R2520G635XD)/(R2520G635HYBD)

- Dual LGA4710 socket
- (2) Intel® Xeon® 6 Processor
- (16+16) Support up to 8,192GBGB RDIMM *Follow latest Intel® DDR5 Memory POR
- (8) 2.5" Hot-Swap SSDs or (24) 2.5" Hot-Swap SSDs (R2520G6U2 skus)
- (12) 3.5" Hot-Swap HDDs or (12) 3.5"/2.5" Hot-Swap HDDs/SSDs with 4 NVMe U.2 (R2520G635 skus)
- (2) 22110/2280 (by PCIe Gen. 4 interface)
- R2520G6U2BC: (1) x8 HH/HL + (2) FH/HL + (2) FH/FL + (2) OCP 3.0 mezzanine slots
- R2520G6U2XD: (1) x8 HH/HL + (2) FH/HL + (2) FH/FL for (2) RTM RAID AIC + (2) OCP 3.0 mezzanine slots
- R2520G635XD: (1) x8 HH/HL + (4) FH/HL + (2) OCP 3.0 mezzanine slots
- R2520G635HYBD: (1) x8 HH/HL + (6) FH/HL, (4) x8 + (2) x16 + (2) OCP 3.0 mezzanine slots
- (1) PCIe Gen. 5 x16 slot (w/ x8 link in HH/HL) / (2) PCIe Gen. 5 x16 slots (FH/HL) / (2) PCIe Gen. 5 x16 slots (FH/FL) for (2) RTM RAID AIC / (2) PCIe Gen. 5 x16 OCP 3.0 mezzanine slots (R2520G6U2XD)
- (1) IPMI ports
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 1,300W RPSU, 80+ Titanium (R2520G6U2BC)
- (1+1) 2,000W RPSU, 80+ Titanium (R2520G6U2XD/R2520G635XD/R2520G635HYBD)

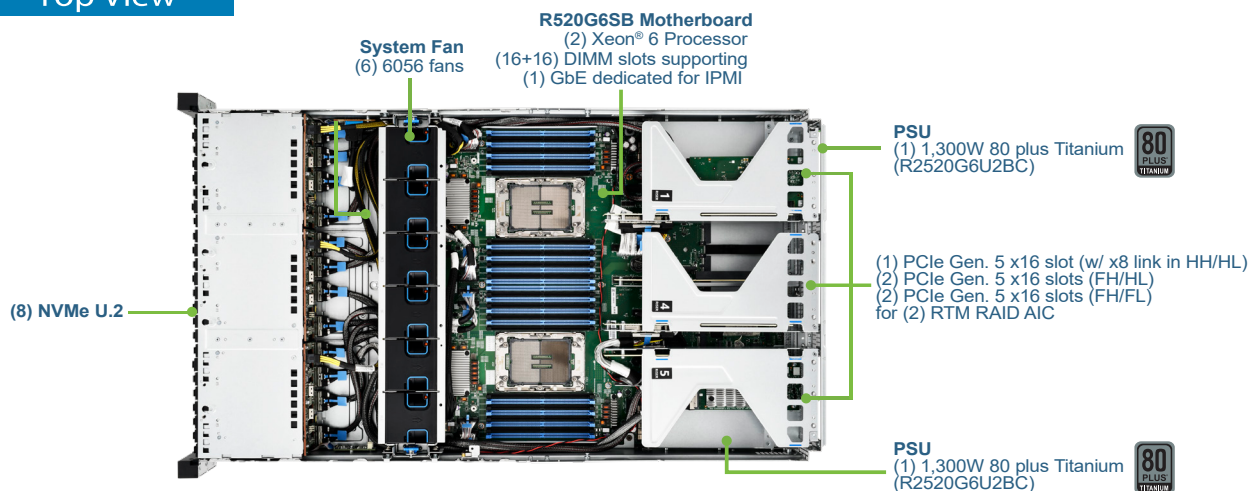
Summary Table

SKU	Motherboard	Storage
R2520G6U2BC	R520G6SB	(8) NVMe U.2 hot-swap
R2520G6U2XD	R520G6SB	(24) NVMe U.2 hot-swap
R2520G635XD	R520G6SB	(12) 3.5" Hot-swap HDDs
R2520G635HYBD	R520G6SB	(12) 3.5"/2.5" Hot-Swap HDD/SSDs w/ (4) NVMe

R2520G6

R2520G6U2BC

Top View



System	Form Factor	2U Rackmount
	Chassis Name	TX77
	Dimension (D x W x H)	30.31" x 17.24" x 3.43" (770 x 438 x 87mm)
	Motherboard	R520G6SB
	Gross Weight	34.5 kg (76.06 lbs)
Front Panel	Net weight	26.25 kg (57.87 lbs)
	Buttons	(1) PWR w/ LED / (1) ID w/ LED / (1) RST / (1) NMI
	LEDs	(1) PWR / (1) ID / (1) Drive / (1) System Event
	I/O Ports	(1) USB 2.0 port / (1) USB 3.0 port
External Drive Bay	Q'ty / Type	(8) 2.5" Hot-Swap SSDs
	Front Drive Bay Interface	(8) SATA 6Gb/s / SAS 24Gb/s / NVMe U.2
	Front HDD Backplane Support	SAS 24Gb/s / SATA 6Gb/s / NVMe
	Notification	The SAS/SATA HDD backplane is connected to onboard MCIO connection by default. Please contact MITAC technical support if a discrete SAS HBA/RAID adapter is required.
System Cooling Configuration	FAN	(6) 6056 fans
	Type	RPSU
Power Supply	Input Range	AC 100-127V/12A / AC 200-240V/8.5A
	Efficiency	80 plus Titanium
	Output Watts	1,300 Watts
	Redundancy	1+1
	Notification	We have additional PSU options available, For further details, please contact local distributors.
Processor	Q'ty / Socket Type	(2) LGA4710
	Supported CPU Series	Xeon® 6 Processor
	Thermal Design Power wattage	Max up to 350W* (TDP)
Memory	Supported DIMM Qty	(16)+(16) DIMM slots
	DIMM Type / Speed	RDIMM / RDIMM-3DS DDR5 6400 MHz (1DPC) / 5200MHz (2DPC) / MRDIMM 8000 (1DPC) -P Core only
	Capacity	Up to 8192GB RDIMM *Follow latest Intel DDR5 Memory POR
	Memory channel	8-Channel DDR5 RDIMM / MRDIMM
	Memory voltage	1.1V
Expansion Slots	PCIe	(1) PCIe Gen 5 x16 slot (w/ x8 link in HH/HL) / (2) PCIe Gen 5 x16 slots (FH/HL) / (2) PCIe Gen 5 x16 slots (FH/FL)
	Others	(2) PCIe Gen.5 x16 OCP 3.0 mezzanine slots
LAN	Q'ty / Port	(1) GbE dedicated for IPMI
	PHY	Realtek RTL8211F

Storage	NVMe	Connector (M.2)	(2) 22110/2280 (by PCIe Gen 4 interface)
		Connector (U.2)	(4) SFF-TA-1016 (MCIO 8x) for (8) front NVMe
Graphic	Connector type	Mini Display Port	
	Resolution	Up to 1920x1200	
Input / Output	Chipset	Aspeed AST2600	
	USB	(1) USB3.0 port / (1) USB UART (on DCSCM)	
	DisplayPort	(1) Mini Display Port	
TPM (Optional)	RJ-45	(1) GbE port dedicated for IPMI	
	TPM Support	TM-TPM2-MS-I-9672	
System Monitoring	Interface	SPI	
	Chipset	Aspeed AST2600	
	Voltage	Monitors voltage for CPU, memory, chipset & power supply	
	Temperature	Monitors temperature for CPU & memory & system environment	
Server Management	LED	Over temperature warning indicator / Fan & PSU fail LED indicator	
	Onboard Chipset	Onboard Aspeed AST2600 (on DCSCM module)	
	AST2600 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub	
BIOS	AST2600 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface	
	Brand / ROM size	AMI / 64MB	
Operating System	Feature	PXE boot support / Console Redirection / SMBIOS 3.6 / ACPI 6.5 / ACPI sleeping states S0, S5 / UEFI Secure Boot / IPMI Boot / Redfish support / PFR Secure Update / HTTP Boot	
	OS supported list	Please refer to our AVL support lists.	
Regulation	FCC (SDoC)	Class A	
	CE (DoC)	Class A	
	CB/LVD	Yes	
	RCM	Yes	
	VCCI	Yes	
	NRTL	Yes	
	BSMI	Yes	
Operating Environment	IC	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	85% (Operating humidity) / 90% (Non-operating Humidity)	
	RoHS 6/6 Complaint	Yes	

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

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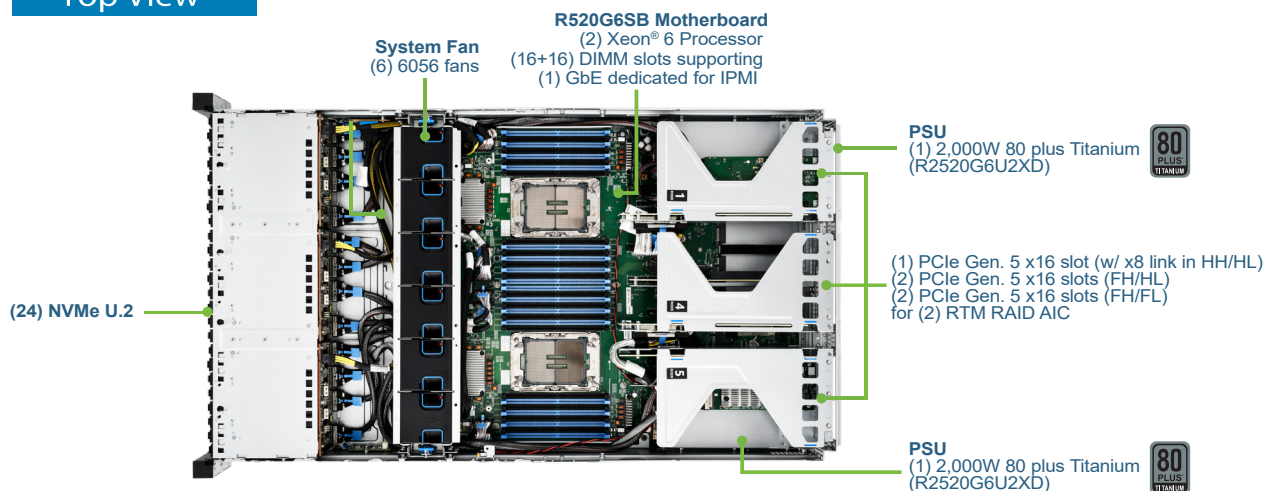
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R2520G6

R2520G6U2XD

Top View



System	Form Factor	2U Rackmount
	Chassis Name	TX77
	Dimension (D x W x H)	30.31" x 17.24" x 3.43" (770 x 438 x 87mm)
	Motherboard	R520G6SB
	Gross Weight	34.5 kg (76.06 lbs)
Front Panel	Net weight	26.25 kg (57.87 lbs)
	Buttons	(1) PWR w/ LED / (1) ID w/ LED / (1) RST / (1) NMI
	LEDs	(1) PWR / (1) ID / (1) Drive / (1) System Event
External Drive Bay	I/O Ports	(1) USB 2.0 port / (1) USB 3.0 port
	Q'ty / Type	(24) 2.5" Hot-Swap SSDs
	Front Drive Bay Interface	(24) SATA 6Gb/s / SAS 24Gb/s / NVMe U.2
System Cooling Configuration	Front HDD Backplane Support	SAS 24Gb/s / SATA 6Gb/s / NVMe
	Notification	The SAS/SATA HDD backplane is connected to onboard MCIO connection by default. Please contact MITAC technical support if a discrete SAS HBA/RAID adapter is required.
	FAN	(6) 6056 fans
Power Supply	Type	RPSU
	Input Range	AC 100-127V/12A / AC 200-240V/ 10A
	Efficiency	80 plus Titanium
	Output Watts	2,000 Watts
	Redundancy	1+1
Processor	Notification	We have additional PSU options available, For further details, please contact local distributors.
	Q'ty / Socket Type	(2) LGA4710
	Supported CPU Series	Xeon® 6 Processor
Memory	Thermal Design Power wattage	Max up to 350W* (TDP)
	Supported DIMM Qty	(16)+(16) DIMM slots
	DIMM Type / Speed	RDIMM / RDIMM-3DS DDR5 6400 MHz (1DPC) / 5200MHz (2DPC) / MRDIMM 8000 (1DPC) -P Core only
	Capacity	Up to 8192GB RDIMM *Follow latest Intel DDR5 Memory POR
	Memory channel	8-Channel DDR5 RDIMM / MRDIMM
Expansion Slots	Memory voltage	1.1V
	PCIe	(1) PCIe Gen 5 x16 slot (w/ x8 link in HH/HL) / (2) PCIe Gen 5 x16 slots (FH/HL) / (2) PCIe Gen 5 x16 slots (FH/FL) for (2) RTM RAID AIC
	Others	(2) PCIe Gen.5 x16 OCP 3.0 mezzanine slots
LAN	Q'ty / Port	(1) GbE dedicated for IPMI
	PHY	Realtek RTL8211F

Storage	NVMe	Connector (M.2)	(2) 22110/2280 (by PCIe Gen 4 interface)
		Connector (U.2)	(4) SFF-TA-1016 (MCIO 8x) for (8) front NVMe
Graphic	Connector type	Mini Display Port	
	Resolution	Up to 1920x1200	
Input /Output	Chipset	Aspeed AST2600	
	USB	(1) USB3.0 port / (1) USB UART (on DCSCM)	
	DisplayPort	(1) Mini Display Port	
TPM (Optional)	RJ-45	(1) GbE port dedicated for IPMI	
	TPM Support	TM-TPM2-MS-I-9672	
System Monitoring	Interface	SPI	
	Chipset	Aspeed AST2600	
	Voltage	Monitors voltage for CPU, memory, chipset & power supply	
Server Management	Temperature	Monitors temperature for CPU & memory & system environment	
	LED	Over temperature warning indicator / Fan & PSU fail LED indicator	
	Onboard Chipset	Onboard Aspeed AST2600 (on DCSCM module)	
BIOS	AST2600 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub	
	AST2600 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface	
Operating System	Brand / ROM size	AMI / 64MB	
	Feature	PXE boot support / Console Redirection / SMBIOS 3.6 / ACPI 6.5 / ACPI sleeping states S0, S5 / UEFI Secure Boot / IPMI Boot / Redfish support / PFR Secure Update / HTTP Boot	
	OS supported list	Please refer to our AVL support lists.	
Regulation	FCC (SDoC)	Class A	
	CE (DoC)	Class A	
	CB/LVD	Yes	
	RCM	Yes	
	VCCI	Yes	
	NRTL	Yes	
	BSMI	Yes	
Operating Environment	IC	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	85% (Operating humidity) / 90% (Non-operating Humidity)	
	RoHS 6/6 Complaint	Yes	

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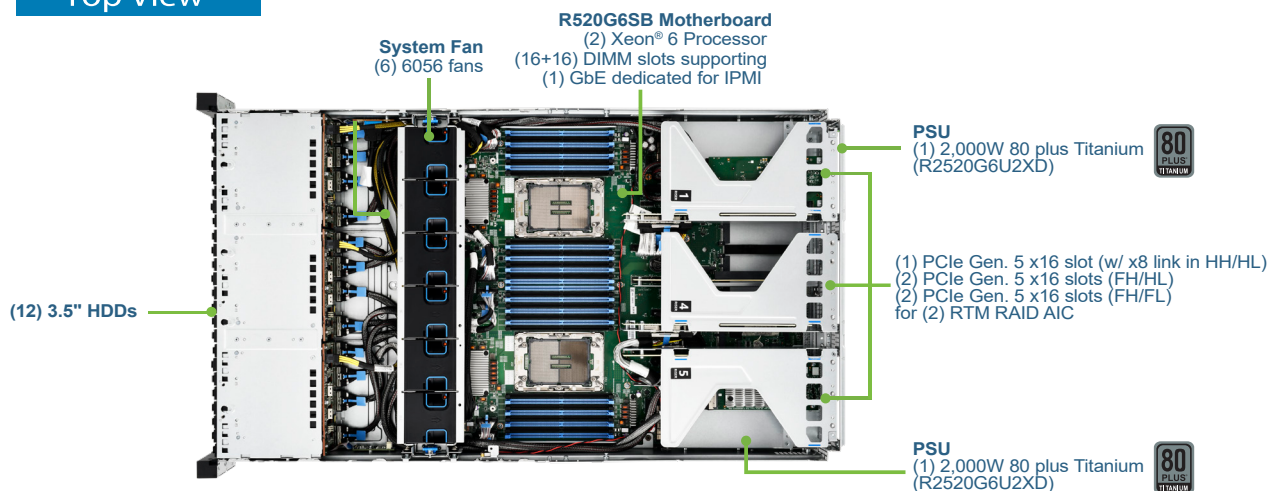
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R2520G6

R2520G635XD

Top View



System	Form Factor	2U Rackmount
	Chassis Name	TX77
	Dimension (D x W x H)	30.31" x 17.24" x 3.43" (770 x 438 x 87mm)
	Motherboard	R520G6SB
	Gross Weight	33.35 kg (73.52 lbs)
Front Panel	Net weight	25.67 kg (56.59 lbs)
	Buttons	(1) PWR w/ LED / (1) ID w/ LED / (1) RST / (1) NMI
	LEDs	(1) PWR / (1) ID / (1) Drive / (1) System Event
	I/O Ports	(1) USB 2.0 port / (1) USB 3.0 port
	Q'ty / Type	(12) 3.5" Hot-swap HDDs
External Drive Bay	Front Drive Bay Interface	(12) SATA 6Gb/s / SAS 24Gb/s
	Front HDD Backplane Support	SAS 24Gb/s / SATA 6Gb/s
	Notification	The SAS/SATA HDD backplane is connected to onboard MCIO connection by default. Please contact MITAC technical support if a discrete SAS HBA/RAID adapter is required.
System Cooling Configuration	FAN	(6) 6056 fans
Power Supply	Type	RPSU
	Input Range	AC 100-127V/12A / AC 200-240V/ 10A
	Efficiency	80 plus Titanium
	Output Watts	2,000 Watts
	Redundancy	1+1
	Notification	We have additional PSU options available. For further details, please contact local distributors.
Processor	Q'ty / Socket Type	(2) LGA4710
	Supported CPU Series	Xeon® 6 Processor
	Thermal Design Power wattage	Max up to 350W* (TDP)
Memory	Supported DIMM Qty	(16)+(16) DIMM slots
	DIMM Type / Speed	RDIMM / RDIMM-3DS DDR5 6400 MHz (1DPC) / 5200MHz (2DPC) / MRDIMM 8000 (1DPC) -P Core only
	Capacity	Up to 8192GB RDIMM *Follow latest Intel DDR5 Memory POR
	Memory channel	8-Channel DDR5 RDIMM / MRDIMM
	Memory voltage	1.1V
Expansion Slots	PCIe	(1) PCIe Gen 5 x16 slot (w/ x8 link in HH/HL) / (4) PCIe Gen 5 x16 slots (FH/HL)
	Others	(2) PCIe Gen.5 x16 OCP 3.0 mezzanine slots
LAN	Q'ty / Port	(1) GbE dedicated for IPMI
	PHY	Realtek RTL8211F

Storage	NVMe	Connector (M.2)	(2) 22110/2280 (by PCIe Gen 4 interface)
Graphic	Connector type	Mini Display Port	
	Resolution	Up to 1920x1200	
	Chipset	Aspeed AST2600	
Input /Output	USB	(1) USB3.0 port / (1) USB UART (on DCSCM)	
	DisplayPort	(1) Mini Display Port	
	RJ-45	(1) GbE port dedicated for IPMI	
TPM (Optional)	TPM Support	TM-TPM2-MS-I-9672	
	Interface	SPI	
System Monitoring	Chipset	Aspeed AST2600	
	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	Onboard Chipset	Onboard Aspeed AST2600 (on DCSCM module)	
	AST2600 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub	
	AST2600 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface	
BIOS	Brand / ROM size	AMI / 64MB	
	Feature	PXE boot support / Console Redirection / SMBIOS 3.6 / ACPI 6.5 / ACPI sleeping states S0, S5 / UEFI Secure Boot / IPMI Boot / Redfish support / PFR Secure Update / HTTP Boot	
Operating System	OS supported list	Please refer to our AVL support lists.	
Regulation	FCC (SDoC)	Class A	
	CE (DoC)	Class A	
	CB/LVD	Yes	
	RCM	Yes	
	VCCI	Yes	
	NRTL	Yes	
	BSMI	Yes	
Operating Environment	IC	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	85% (Operating humidity) / 90% (Non-operating Humidity)	
	RoHS 6/6 Compliant	Yes	

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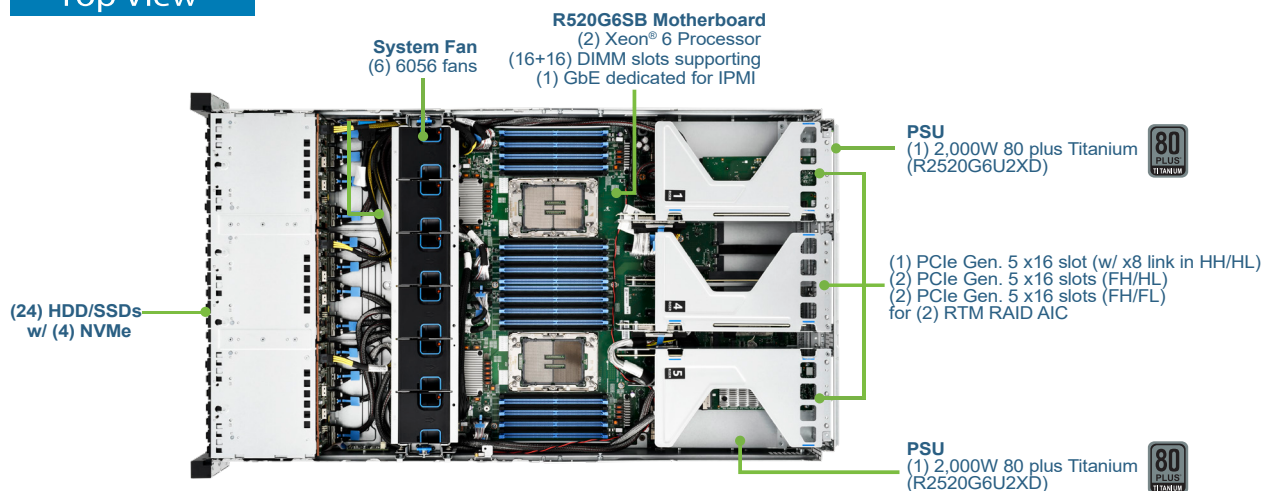
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R2520G6

R2520G635HYBD

Top View



System	Form Factor	2U Rackmount
	Chassis Name	TX77
	Dimension (D x W x H)	30.31" x 17.24" x 3.43" (770 x 438 x 87mm)
	Motherboard	R520G6SB
Front Panel	Gross Weight	33.35 kg (73.52 lbs)
	Net weight	25.67 kg (56.59 lbs)
	Buttons	(1) PWR w/ LED / (1) ID w/ LED / (1) RST / (1) NMI
	LEDs	(1) PWR / (1) ID / (1) Drive / (1) System Event
External Drive Bay	I/O Ports	(1) USB 2.0 port / (1) USB 3.0 port
	Qty / Type	(12) 3.5"/2.5" Hot-Swap HDD/SSDs w/ (4) NVMe
	Front Drive Bay Interface	(12) SATA 6Gb/s & SAS w/ (4) NVMe
	Front HDD Backplane Support	SAS 24Gb/s /SATA 6Gb/s /NVMe
System Cooling Configuration	Notification	The SAS/SATA HDD backplane is connected to onboard MCIO connection by default. Please contact MiTAC technical support if a discrete SAS HBA/RAID adapter is required.
	FAN	(6) 6056 fans
Power Supply	Type	RPSU
	Input Range	AC 100-127V/12A / AC 200-240V/ 10A
	Efficiency	80 plus Titanium
	Output Watts	2,000 Watts
	Redundancy	1+1
Processor	Notification	We have additional PSU options available, For further details, please contact local distributors.
	Qty / Socket Type	(2) LGA4710
	Supported CPU Series	Xeon® 6 Processor
Memory	Thermal Design Power wattage	Max up to 350W* (TDP)
	Supported DIMM Qty	(16)+(16) DIMM slots
	DIMM Type / Speed	RDIMM / RDIMM-3DS DDR5 6400 MHz (1DPC) / 5200MHz (2DPC) / MRDIMM 8000 (1DPC) -P Core only
	Capacity	Up to 8192GB RDIMM *Follow latest Intel DDR5 Memory POR
	Memory channel	8-Channel DDR5 RDIMM / MRDIMM
Expansion Slots	Memory voltage	1.1V
	PCIe	(1) PCIe Gen 5 x16 slot (w/ x8 link in HH/HL) / (6) PCIe Gen 5 x16 slots (4" x8 link + 2"x16 link in FH/HL)
	Others	(2) PCIe Gen.5 x16 OCP 3.0 mezzanine slots
LAN	Qty / Port	(1) GbE dedicated for IPMI
	PHY	Realtek RTL8211F

Storage	NVMe	Connector (M.2)	(2) 22110/2280 (by PCIe Gen 4 interface)
Graphic	Connector type	Mini Display Port	
	Resolution	Up to 1920x1200	
	Chipset	Aspeed AST2600	
Input /Output	USB	(1) USB3.0 port / (1) USB UART (on DCSCM)	
	DisplayPort	(1) Mini Display Port	
	RJ-45	(1) GbE port dedicated for IPMI	
TPM (Optional)	TPM Support	TM-TPM2-MS-I-9672	
	Interface	SPI	
System Monitoring	Chipset	Aspeed AST2600	
	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	Onboard Chipset	Onboard Aspeed AST2600 (on DCSCM module)	
	AST2600 iKVM Feature	24-bit high quality video compression / Supports storage over IP and remote platform-flash / USB 2.0 virtual hub	
	AST2600 IPMI Feature	IPMI 2.0 compliant baseboard management controller (BMC) / 10/100/1000 Mb/s MAC interface	
BIOS	Brand / ROM size	AMI / 64MB	
	Feature	PXE boot support / Console Redirection / SMBIOS 3.6 / ACPI 6.5 / ACPI sleeping states S0, S5 / UEFI Secure Boot / IPMI Boot / Redfish support / PFR Secure Update / HTTP Boot	
Operating System	OS supported list	Please refer to our AVL support lists.	
Regulation	FCC (SDoC)	Class A	
	CE (DoC)	Class A	
	CB/LVD	Yes	
	RCM	Yes	
	VCCI	Yes	
	NRTL	Yes	
	BSMI	Yes	
Operating Environment	IC	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	85% (Operating humidity) / 90% (Non-operating Humidity)	
	RoHS 6/6 Complaint	Yes	

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