

## NA-SB122-TO Storage Server

### Features & Benefits

- 1U 10 Bay storage server supports PCIe SSD 2.5" FF drives and SATA/SAS/SSD 2.5" drives to provide a highly dense, hybrid storage solution.
- Support two Intel® Xeon® Processor E5-2600/E5-2600 v2 Processors with Intel® C604 Chipset to provide 5+ years product life cycle.
- Flexible IO usage with Max IO™ to support up to 2 COTS PCIe Gen3 cards.
- Onboard Baseboard Management Controller for system management and IPMI control.
- Two 10 GbE ports with SFP+ cage/connector.
- Front-to-back airflow and hot-swap redundant fans provide optimal thermal conditions.
- Customizable to meet your requirements.



### Specifications

<b>Form Factor</b>	1U	
<b>Dimensions (W x D x H)</b>	19" x 31" x 1.75"	
<b>Motherboard</b>	Tolimon (PSG-M-TODPPATS-110)	
<b>Processor</b>	Processor Support	Two Intel® Xeon® Processor E5-2600/E5-2600 v2 Product Family
	QPI Speed	8 GT/s, 7.2 GT/s, 6.4 GT/s
	Socket Type	FCLGA2011 (Socket R)
<b>Chipset</b>	Intel C604	
<b>Memory</b>	<ul style="list-style-type: none"> <li>• 4 memory channels per CPU socket, 2 channels with 2DPC +</li> <li>• 2 channels with 1DPC</li> <li>• 12 DIMM slots support maximum memory size of 384GB</li> <li>• 384GB DDR3 1600/1333/1066/800 RDIMM QR</li> <li>• 96GB DDR3 1333/1066 UDIMM SR, DR</li> <li>• 384GB DDR3 1333/1066 LRDIMM QR</li> </ul>	
<b>Driver Bays</b>	8 x hot-swap PCIe SSD 2.5" SFF drive bays • 2 x hot-swap 2.5" HDD/SSD drive bays	
<b>Expansion Slots</b>	2 x PCIe X8 slots	
<b>Riser Card (Included)</b>	PSG-RC-AR1U-20-XXX (PSG Code: PE1U03)	1U PCIe Gold finger to 1 x PCIe X16 + 2 x PCIe X8 (External)
	PSG-RC-TO1U-28-110 (PSG Code: PEMS02)	PCIe to SFF8643 for front PCIe SSD backplane connection

<b>System BIOS</b>	<b>BIOS Type</b>	AMI EFI BIOS SPI (Serial Peripheral Interface) Flash Interface
	<b>BIOS Features</b>	EFI 2.3 BIOS ACPI 1.0/2.0/3.0 PXE 2.0 WOL AC loss recovery IPMI KCS Interface SMBIOS 2.0 Serial Console redirection
<b>On-Board Devices</b>	<b>SAS</b>	Built-in 3G SAS RAID Controller on Intel® C604 Chipset 1 Mini SAS Connector (4 SAS ports per Connector)
	<b>SATA</b>	Built-in SATA RAID controller on Intel® C604 Chipset • 2 x SATA3 ports   • 4 x SATA2 ports
	<b>IPMI</b>	Aspeed AST2150 Mainstream PCIe Graphics & Remote Management Processor • Intelligent Platform Management Interface 2.0 (IPMI 2.0) • iKVM, Media Redirection, IPMI over LAN, Serial over LAN
	<b>Network Controllers</b>	Intel® 82599 10 Gigabit Ethernet Controller, dual port, PCIe 2.0 • Intel® 82574L Gigabit Ethernet Controller, single port, PCIe, shared with BMC • Intel® 82579LM Gigabit Ethernet PHY, single port, 1 Gbps
	<b>Graphics</b>	Aspeed AST2150 Mainstream PCIe Graphics & Remote Management Processor • PCIe VGA/2D Controller • 1600x1200@60Hz 16bpp
	<b>Super I/O</b>	Winbond W83627DHG

**NA-SB122-TO**  
**Storage Server**

Top View



Rear View



Front View



Rear I/O	LAN	2 x SFP+ connectors and cage (for 10 GbE) 2 x RJ45 connectors (for GbE and BMC)
	USB	2 x USB 2.0 Type A connectors
	VGA	1 x DB-15 VGA port
	Serial Port	1 x DB-9 Serial port
Power Supply	AC 650W 1+1 redundant high efficiency 80+ power supply • 90-264VAC, 47-63 Hz	
System Cooling	6 x 40x56mm 2 ball 21500/18000RPM hot-swap fans	
System Management	<ul style="list-style-type: none"> <li>• IPMI 2.0</li> <li>• KVM over IP</li> <li>• Media redirection</li> <li>• Temperature, fan, voltage, PSU sensor monitor</li> <li>• System temperature</li> <li>• System ID / System fail indicator</li> <li>• Remote power on/off/reset</li> <li>• SEL message alarm through mail</li> <li>• SNMP support</li> </ul>	

Environmental Specifications	Operating temperature : 0° - 35°C • Operating altitude condition : 0 ~ 10K feet • Storage temperature : -20° ~ 60°C • System relative humidity : 5% - 95% (38°C)	
Gross Weight	(w/ PSU &	24 kgs / 53 lbs
Packaging Dimension	(W x D x H)	mm: 590 x 1130 x 273
Cubic Feet	6.43	
Mounting Option	28" Slide Rail	