

SB221-GE Storage Server Barebone



Features :

- Dual Intel® 5520 + Intel® ICH10R with 5+ year life cycle
- High density I/O design - up to 9 OTS (off-the-shelf) cards (3 x internal + 6 x exposed)
- 24 x 2.5" size HDD bays without expander to maximize I/O bandwidth for solid state disks
- Front-to-back airflow and hot-swap redundant fan design provide optimal thermal conditions
- Server Class 6 x GbE ports
- Includes IPMI 2.0 & iKVM

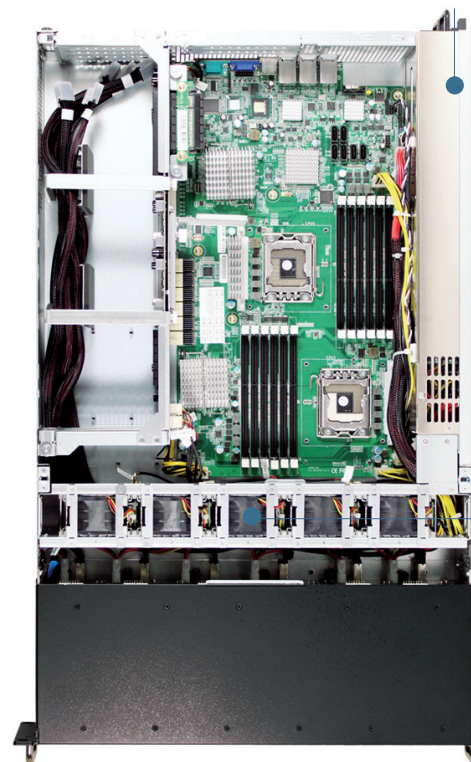
SPECIFICATIONS

Dimensions : (W x D x H) (with chassis ears)	mm : 482.6 x 711 x 88.8 inches : 19 x 28 x 3.5
Motherboard :	Gemini (PSG-M-GEDP036D-110)
Processor :	Processor Support: Dual LGA1366 sockets to support two Dual-Core/Quad-Core/6-Core Intel® Xeon® processors 5500/5600 series System Bus: 1066/1333 MHz
Chipset Support :	• 2 x Intel® 5520 • Intel® 82801JIR (ICH10R)
System Memory :	• 12 x DIMM slots support up to 192 GB of DDR3 800/1066/1333 MHz Registered ECC memory (recommended) / Unbuffered ECC SDRAM • Tri-channel, 2 DIMMs per channel
Front Panel :	Buttons: • Power on/off • System ID • System reset LEDs: • Power • System ID • Alert
Drive Bays :	• 24 x 2.5" hot-swap HDD bays • SSD supported with 800W PSU (HDD specific, will rely on 5V margin) • SATA/SAS supported with 1000W PSU (recommended) • 2 x 1.8" internal SATA/SAS/SSD HDD bay (optional)
Expansion Slots :	• 1 x PCIe X16 slot (X8 lane) (external) • 5 x PCIe X8 slots (external) • 2 x PCIe X8 slots (internal) • 1 x PCIe X8 slot (X4 lane) (internal)
Riser Card : (included)	PSG-RC-GE2U-80-110 (PSG Code: PE2U06) 2U Gold finger PCIe Gen 2 X16 to 1 PCIe X16 (X8 lane) (ext.) + 4 PCIe X8 (ext.) + 2 PCIe X8 (int.) + 1 PCIe X8 (X4 lane) (int.) riser for Gemini PSG-RC-GE0B-10-110 (PSG Code: PE2U04) 2U on-board PCIe Gen2 X8 to 1 PCIe X8 riser for Gemini

SATA/SAS BP :	1 x SAS/SATA 3G/6G 24-in-1 BP with SGPIO support
System BIOS :	BIOS Type: • AMI BIOS • SPI (Serial Peripheral Interface) FLASH Interface BIOS Features: • ACPI 1.0/2.0/3.0 • PXE 2.0 • WOL • AC loss recovery • IPMI KCS interface • SMBIOS 2.0 • Serial console redirection
On-board Devices :	SATA: Built-in Intel® ICH10R SATA2 controller with RAID support IPMI: Aspeed AST2050 BMC • Intelligent Platform Management Interface 2.0 (IPMI 2.0) • iKVM, Media Redirection, IPMI over LAN, Serial over LAN • SMASH support Network Controllers: • 2 x Intel® 82571EB PCIe dual-port GbE controller; external • Intel® 82574L PCIe single-port GbE controller; external (BMC Management) • Intel® 82567LM GLCI on ICH10R single-port GbE PHY; external Graphics: Aspeed AST2050 graphics controller • 8MB VGA memory • 1600 x 1200 @ 60 Hz Super I/O: Winbond W83627DHG
Rear I/O :	LAN: 6 x RJ-45 ports USB: 2 x USB ports VGA: 1 x VGA port Serial Port: 1 x DB-9 serial port

• TOP VIEW •

800W 1+1 hot-swap redundant 80+ [Standard]
1000W 1+1 hot-swap redundant 80+ [Optional]



• REAR VIEW •

1 x PCIe X16 slot (X8 lane)
5 x PCIe X8 slots



• FRONT VIEW •

24 x 2.5" hot-swap HDD bays



5 x 60x38mm hot-swap redundant fans

Power Supply :	800W 1+1 hot-swap redundant 80+ (Standard) • +5V 22A • +12V 62A • +3.3V 22A or 1000W 1+1 hot-swap redundant 80+ (Optional) • +5V 36A • +12V 83A • +3.3V 31A
System Cooling :	5 x 60x38mm hot-swap redundant fans
System Management :	• IPMI 2.0 compliance • KVM over IP • Media redirection • CPU temperature (PCEI) • System temperature • Fan speed detection • Smart fan speed control • System ID / System fail indicator • SMASH support • Remote power on/off/reset

Environmental Specifications :	• Operating temperature: 0 ~ 35°C • Operating altitude condition: 0 ~ 10K feet • Storage temperature: -20° ~ 60°C • System relative humidity: 5% to 95% (38°C) non-condensing
Gross Weight :	(w/ PSU & Rail) 31 kgs / 68.2 lbs
Packaging Dimension :	(W x D x H) mm : 614 x 955 x 308
Cubic Feet :	6.4
Reference Container Loading :	20' 150 40' 305 40'H 370
Mounting Option :	SLR-TL28-TW-CR 28" slide rail

Ordering Information

Part Number	Description
PSG-SB-2URGEDP0114	2U 24 x 2.5" SFF Bays Gemini Storage Server