

SUPERMICR[®]

SuperBlade[®]

Double Density TwinBlade[™]

4-way Blade



OfficeBlade[™] and Storage Blade

DatacenterBlade[™]



Highest Performance per Watt

Up to 40 Processors (480 cores) per 7U Enclosure

94% Industry-Leading Efficiency Power Supply

- Six-Core Intel[®] Xeon[®] and Twelve-Core AMD Opteron[™]
- Up to 20 server nodes per 7U
- Up to 20 GPUs + 20 CPUs per 7U
- Six enclosures per 42U standard rack
- High Efficiency N+1 redundant power supplies (100~240VAC Option)
- Chassis management modules
- 10GbE/1GbE Layer 2/3 switch modules
- 40Gb/20Gb InfiniBand switch modules

Application-Optimized for:

Enterprises, Financial Services, Databases, Datacenters, Research Labs, High Performance Computing & Offices



Intel & AMD DP TwinBlade



GPU Blade w/
Two Tesla M-series GPUs



Intel DP Blade w/
Six 6Gbps SAS2 HDDs



4-way AMD Processor Blade



Intel DP Blade w/
PCI-E 2.0 x16 Expansion Slot



Layer 3 10GbE switch



40Gb InfiniBand switch

Chassis Management Module
Web-based GUI



CMM IPMI View

MKT-0007-1110-1.0

November, 2010

Why SuperBlade®?

Best Density

Up to 40 processors (480 cores) per 7U enclosure
 Supports current and next generation processors
 Supports up to 20 GPUs per 7U enclosure

Highest Memory Expansion Capability in the Industry

Up to 2.56TB memory per 7U enclosure

Fastest and Most Cost-Effective Networking Solution

20Gbps 4x DDR InfiniBand switch
 40Gbps 4x QDR InfiniBand switch
 10GbE switch
 1/10GbE switch - layer 2/3 switch with three 10GbE and two 1GbE uplinks
 1GbE switch - layer 2 switch with 10 external uplink ports
 1GbE and 10GbE pass-through modules
 FCoE module coming soon

High Efficiency Power for Earth-Friendly Operations

Up to 94% peak efficiency for 2500W power supply modules
 N+1 redundant high efficiency power supplies in - 1620W, 2000W or 2500 options

Outstanding Storage Flexibility

Hot-plug 6Gb/s SAS2 or 3Gb/s SATA2
 Two 3.5" SATA hard drive support
 Up to six 2.5" SAS(2)/SATA hard drive support
 RAID 0, 1, 5, 10 (SBI-7126T-S6)

Peace of Mind via Remote Management

Standard with a chassis management module (CMM) for IPMI 2.0 remote server management, Virtual media over LAN and KVM over IP capabilities

Lower TCO

Modular design reduces deployment costs
 High computational density reduces facility costs
 High efficiency power supply reduces electrical costs
 Cable reduction reduces cable count and can save thousands of dollars
 Remote management reduces maintenance cost

The Award-winning TwinBlade!



The Best Blade-based Solution
 - 2010 Blade System Insight

SuperBlade® Enclosures and Cabinet



* SBE-710E Shown



* SBE-714D Shown

Part ID	SBE-710E/Q Series
Server Blade	Up to 10 hot-plug server blades
Module Support	Supports both Intel and AMD based blades
LED	Power LED, Fault LED
InfiniBand Switch	One hot-plug 4x DDR IB switch (710E) or up to two hot-plug 4x QDR IB switches (710Q)
Gigabit Ethernet Switch	Up to two hot-plug Gigabit Ethernet switches or pass-through modules Up to two 10G pass-through modules (710E)
Management Module	Up to two hot-plug management modules providing remote KVM and IPMI 2.0 functionalities
Power Supply	Hot-swap 1620W/2000W (710E) or 1620W/2500W (710Q) power supplies, N+1 redundant
Cooling Design	Front to back
Dimensions (HxWxD)	12.2" x 17.6" x 29"

Part ID	SBE-714D/E Series
Server Blade	Up to 14 hot-plug server blades
Module Support	Supports Intel based blades
LED	Power LED, Fault LED
InfiniBand Switch	One hot-plug 4x DDR IB switch (714E only)
Gigabit Ethernet Switch	One (714D) or up to two (714E) hot-plug Gigabit Ethernet switches. One 10-Gigabit pass-through module (714E only)
Management Module	One (714D) or up to two (714E) hot-plug management modules providing remote KVM and IPMI 2.0 functionalities
Power Supply	Hot-swap 1620W power supplies, N+1 redundant
Cooling Design	Front to back
Dimensions (HxWxD)	12.2" x 17.6" x 29"

TwinBlade Enclosure



Part ID	SBE-720E Series
Server Blade	Up to 10 hot-plug server blades and TwinBlade
Module Support	Supports both Intel and AMD based blades
LED	Power LED, Fault LED
InfiniBand Switch	Up to two hot-plug 4x QDR IB switches
Gigabit Ethernet Switch	Up to two hot-plug layer 3 Gigabit Ethernet switches and pass-through
Management Module	One hot-plug management modules providing remote KVM and IPMI 2.0 functionalities
Power Supply	Hot-swap 2500W power supplies, N+1 redundant
Cooling Design	Front to back
Dimensions (HxWxD)	12.2" x 17.6" x 29"

Personal Supercomputing Mini Rack Cabinet - CSE-RACK14U



Mobility, Protection and Security -
 Ideal for Office Application/Environment
 or Personal Supercomputing

Key Features

- Mobile 14U Rack Space
- Ideal for Office Environments - The same height as standard office furniture (30.64"H)
- Upgradeable - Rear frame mounting
- Mobile - casters for easy mobility

Specifications

- 14U height;
- 21.65" W x 34.65" D x 30.64" H
- Supports standard 19" rackmount servers with standard mounting holes
- Front door lock, casters with brakes
- Stability support
- Optional air filter

The innovative SuperBlade® features enhanced system computing density leveraged from years of rackmount server design experience. Applying Supermicro's application-optimized engineering philosophy, each SuperBlade® module delivers true server functionality including up to two Six-Core Intel® Xeon® or 12-Core AMD® Opteron™ processors, optional InfiniBand or 10Gb mezzanine HCA, optional PCI-E expansion card, and support for up to 6 SATA or SAS2 hard drives. For more computational-intensive applications, the SuperBlade also offers 4-way Opteron blades (48 cores per blade).

Supermicro also offers low-noise blade solutions that are optimized for offices and SMB. The OfficeBlade™ is ideal for SMB as well as personal supercomputing applications. With acoustically optimized thermal and cooling technologies it achieves < 50dB with 10 DP server blades and features 100-240VAC, ultra high-efficiency (94%), N+1 redundant power supplies.

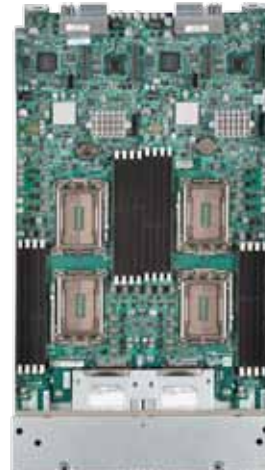
NEW!
GPU Blade
2 GPUs + 2 CPUs in 1 Blade



NEW!
Westmere TwinBlade
2 DP Nodes in 1 Blade



NEW!
AMD G34 TwinBlade
2 DP Nodes in 1 Blade



NEW! G34 4-way
Opteron Blade for
HPC & Enterprise



Model	SBI-7126TG	SBI-7226T-T2 (two nodes)	SBA-7222G-T2 (two nodes)	SBA-7142G-T4
Processors	Two Six/Quad/Dual-Core Xeon 5600/5500 Series per node	Two Six/Quad/Dual-Core Xeon 5600/5500 Series per node	Two AMD Twelve/Eight-Core Opteron™ 6100 Series per node	Four AMD Twelve/Eight-Core Opteron™ 6100 Series per node
CPUs per 42U Rack	120 (+ 120 GPUs)	240	240	240
Chipset	Intel 5500 with QPI	Intel 5500 with QPI	AMD SR5650/SP5100	AMD SR5650/SP5100
Memory Support	RDIMM or UDIMM DDR3 1333/1066/800 in 6 slots per node	RDIMM or UDIMM DDR3 1333/1066/800 in 8 slots per node	RDIMM or UDIMM DDR3 1333/1066 in 8 slots per node	RDIMM or UDIMM DDR3 1333/1066 in 16 slots
Max Memory	96GB (RDIMM)/ 24GB (UDIMM)	128GB(RDIMM)/32GB(UDIMM) per node	128GB(RDIMM)/32GB(UDIMM) per node	256GB(RDIMM)/64GB(UDIMM)
Expansion & Hard Disk Drive	Up to two PCI-E x16 (FH/HL) or Up to four PCI-E x8 (FH/HL) Support 2 Tesla M2070/2050	Two hot-plug 2.5" SATA hard disk drives per node	Two hot-plug 2.5" SATA hard disk drives per node	Four hot-plug 2.5" SATA hard disk drives
Max Storage	1 SATA DOM	1TB SATA per node	1TB SATA per node	2TB SATA
Storage RAID	N/A	Intel ICH10R SATA RAID 0, 1	AMD SP5100 SATA RAID 0, 1	AMD SP5100 SATA RAID 0, 1
InfiniBand/10GbE Option	Dual 4X QDR InfiniBand or 10GbE mezzanine HCA	4X QDR (40Gb) InfiniBand or 10GbE mezzanine HCA per node	4X QDR (40Gb) InfiniBand or 10GbE mezzanine HCA per node	4X QDR (40Gb) InfiniBand or 10GbE mezzanine HCA per node
Ethernet Interface	Intel 82576 dual-port Gigabit Ethernet controller per node	Intel 82576 dual-port Gigabit Ethernet controller per node	Intel 82576 dual-port Gigabit Ethernet controller per node	Intel 82576 dual-port Gigabit Ethernet controller per node
Management	IPMI 2.0, KVM over IP, Virtual Media over LAN	IPMI 2.0, KVM over IP, Virtual Media over LAN	IPMI 2.0, KVM over IP, Virtual Media over LAN	IPMI 2.0, KVM over IP, Virtual Media over LAN
Graphics	Matrox G200eW	Matrox G200eW	Matrox G200eW	Matrox G200eW
LED Indicators	Power LED, UID/KVM LED, Network LED, Fault LED per node	Power LED, UID/KVM LED, Networking LED, Fault LED per node	Power LED, UID/KVM LED, Networking LED, Fault LED per node	Power LED, UID/KVM LED, Networking LED, Fault LED
Operating Temp.	10-35° C non-condensing	10-35° C non-condensing	10-35° C non-condensing	10-35° C non-condensing
Dimensions	11.32" x 1.67" x 18.9"	11.32" x 1.67" x 20.5"	11.32" x 1.67" x 20.5"	11.32" x 1.67" x 20.5"

* VLP (very low-profile) memory modules

We Keep IT Green™



**Comprehensive Servers, Storage, Networking Product Lines
Optimized for IT, Datacenter, HPC and Cloud Computing**



Electromagnetic Compatibility (EMC)

United States / Canada	FCC - Emissions (US) Verification
Europe	EN55022 - Emissions EN55024 - Immunity EN61000-3-2 - Harmonics EN61000-3-3 - Voltage Flicker CE- EMC Directive 89/336/EEC

Safety Compliance

United States / Canada	UL60950-1 - CSA/CUL 60950-1
Europe	TUV, EN60950-1, CE- Low Voltage Directive 73/23/EEC

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94% Power Efficiency

For improved TCO and earth-friendly computing