

**SUPERMICRO**®

# MicroBlade

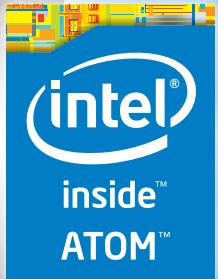
Power Efficiency • Density • Performance • Cost-Effectiveness

Up to **112** UP Nodes in 6U,

**Intel® Atom™ Processor C2750 Series Support**

**New!**

*Industry's  
Densest  
UP Servers*



**Intel® Atom™ Processor C2000 series and more...**

### Highest Density for Best Space Savings

- 112 Intel® Atom™ Processor C2750 series UP Nodes in 6U
- Up to 99% cable reduction compared to 1U servers

### Best Performance-per-Rack for Compute Intensive Applications

- Up to 784 nodes (6272 cores) per 42U rack

### SDN (Software Defined Switch)

- Redundant GbE switches with 40G/10G uplinks, and more...

### Maximum Efficiency for Best TCO

- High-efficiency Supermicro system design (as low as 10 watts per node)
- 95% efficiency, Platinum, N+1 or N+N redundant digital power supplies

### Ease of Management & Maintenance

- Remote Management (IPMI 2.0, KVM over IP, remote Virtual Media)
- Front-Loading Nodes for easy access and servicing

### Applications:

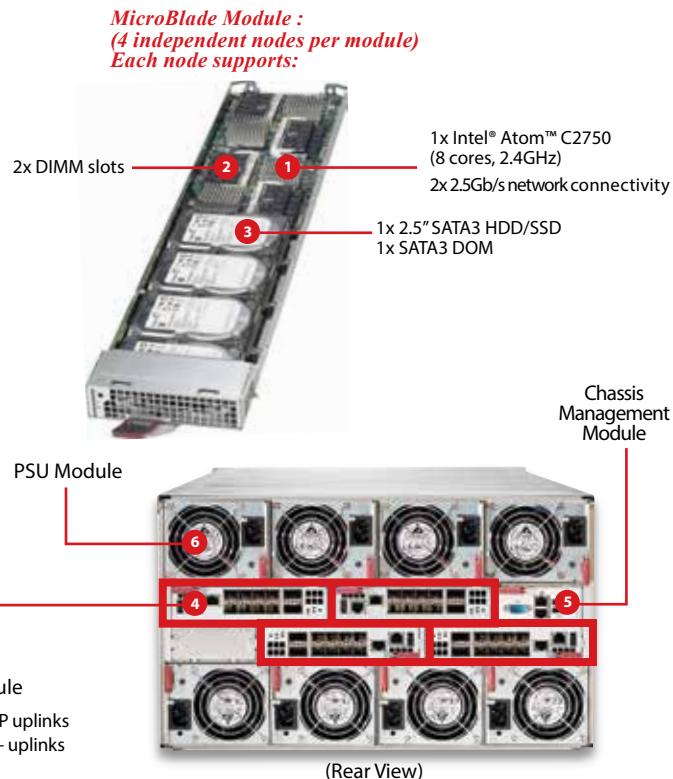




# 112 UP Nodes in 6U

**New! Intel® Atom™ Processor C2750 Series Support**

**Industry's Densest UP Server**



## MODEL

## MicroBlade

MicroBlade Module  
(4 independent nodes per module)  
Each node supports:

- ① 1x Intel® Atom™ Processor C2750 (8 cores, 2.4GHz) with 2x 2.5Gb/s network connectivity per node
- ② Up to 32GB ECC DDR3 1600/1333MHz SO-DIMM in 2x DIMM sockets per node
- ③ 1x 2.5" 6Gb/s SATA3 HDD/SSD and 1x SATA3 DOMs per node

### Outstanding Features

- 112 Intel® Atom™ Processor C2000 series UP Nodes in 6U
- Up to 784 UP nodes (6272 cores) per 42U rack
- Up to 99% cable reduction
- Up to 4x GbE switches with 2x 40Gb/s QSFP or 8x 10Gb/s SFP+ uplinks per enclosure
- Up to 8x (N+1 or N+N redundant) 1600W **Platinum Level** High-Efficiency (95%) **Digital** power supplies per enclosure

### ④ Switch Module

- 2x 40Gb/s QSFP or 8x10Gb/s SFP+ uplinks
- 56x 2.5Gb/s downlinks
  - L2+ Switching
  - 64K MAC Table
  - 4K VLANs
  - Port Mirroring
  - Spanning Tree (RSTP / MSTP)
  - Access Control List (ACL)
  - Link Aggregation
  - Storm Controllers
  - IGMP Snooping
  - SDN/OpenFlow
  - CLI / SNMP / XMLRPC
- Intel® Open Networking Software (ONS)
- Out of Band Management port
- RS232 Console
- Cisco compatible
- LLDP Data Center Bridging

### ⑤ Chassis Management Module

- 1 CMM remotely manages and monitors server blades, power supplies, cooling fans, and networking switches
- IPMI 2.0 compliant, with KVM over LAN / KVM over IP
- Serial over LAN (SOL)
- Virtual Media Over LAN (Virtual USB Floppy/CD and Drive Direction)
- LAN Alert-SNMP Trap
- Event Log
- Hardware Health Monitor
- Remote Power Control
- Management Tools - IPMIView, CLI (Command Line Interface)
- Supports RMCP & RMCP+ Protocols

### ⑥ PSU Module

- Up to 8x (N+1 or N+N redundant) 1600W (200-240VAC)/1400W (120-140VAC)/1200W (100-120VAC) **Platinum Level** High-Efficiency (95%) **Digital** power supplies with cooling fans
- Peak efficiency 95% at 50% loading
- Supports remote monitoring through I<sup>2</sup>C and SMBus

### Form Factor

6U Enclosure  
449 x 265 x 813mm (17.67"W x 10.43"H x 32"D)