

Pioneer DreamMicro

Blade NetServer

Pioneer Computers Australia

www.pioneer.net.au

DreamMicro NetServer

System Features



◆ CPU & Chipset

- Support Intel® Atom Dual Core 330 processor
- Intel® 945GSE + ICH7-M. FSB 533/400MHz

◆ Memory

- (2) UDDR-2 SO-DIMMs
- Max. 2GB UDDR-2 533/400 memory

◆ Networking

- (2) GbE (Intel® 82574L)

◆ Video

- Intel® 945GSE, or
- (Opt.) ASPEED AST2050

◆ Raid (software)

- Raid 0,1,

◆ Storage

- (2) internal 2.5" SATA-II HDD bracket, or
- (1) internal 3.5" SATA-II HDD bracket (sold separately)

◆ Chassis

- Industry standard 19" rack-mountable 5U chassis
- Dimension: H8.7" x W17.52" x D13.78" (H221mm x W445mm x D350mm)
- TYAN VT35 w/ ERP1U 650W power supply (Redundant-Ready)
- Hold up to (10) TYAN S3105 motherboards (mini-ITX footprint)

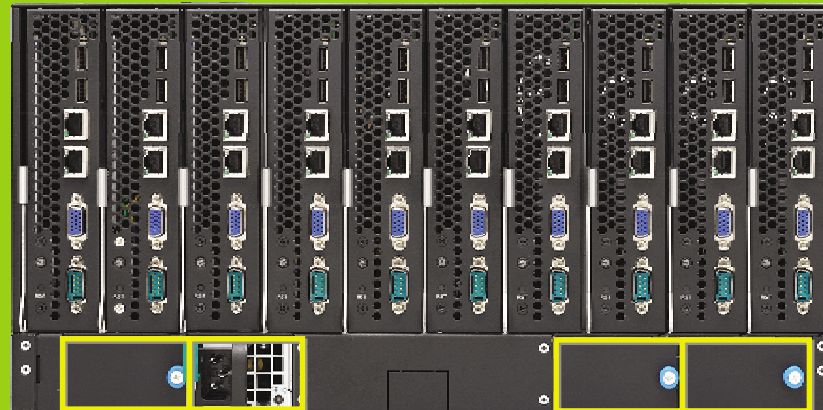


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Enclosure View



Front view of enclosure



- (1) power module is installed as default
- Up to (4) power modules w/ 3+1 redundancy

Rear view of enclosure

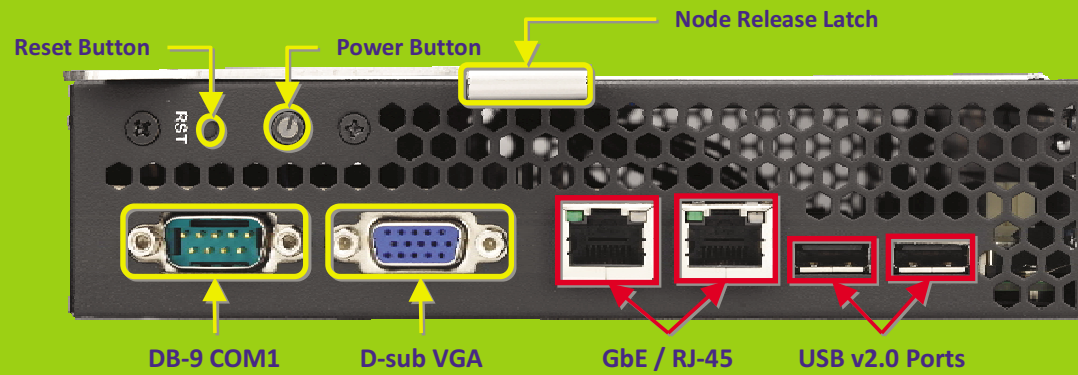


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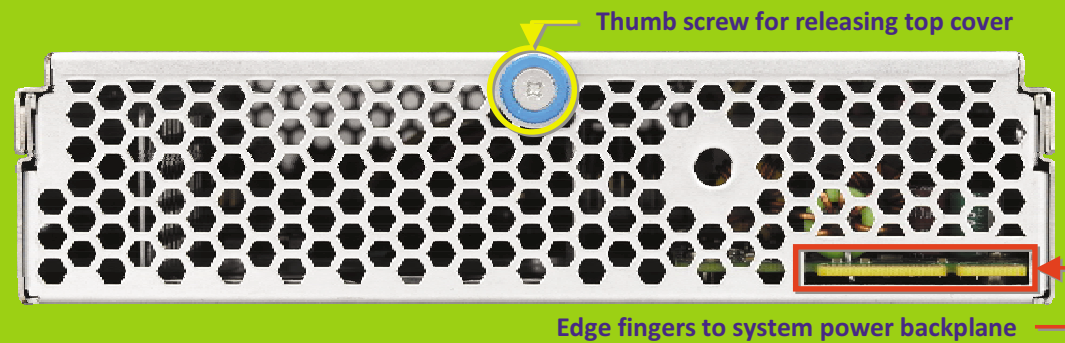
Node Cage View



Front view of individual node



Rear view of individual node



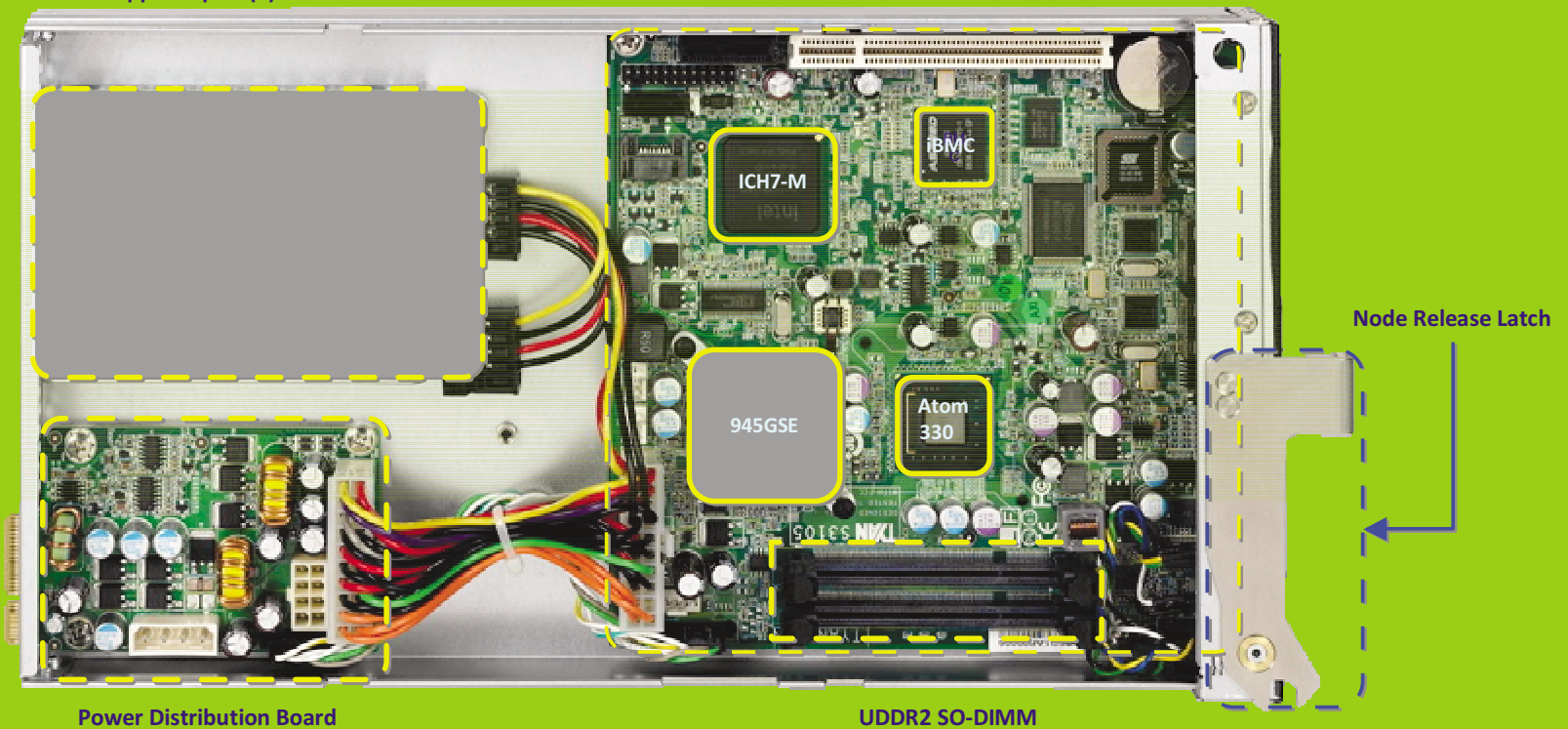
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Node Cage View



- 2.5" HDD Holding Bracket
- Support up to (2) 2.5" HDDs

Mini-ITX form factor motherboard



Power Distribution Board

UDDR2 SO-DIMM

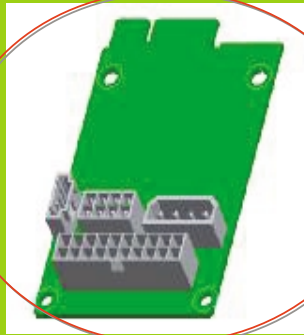
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Individual Node View (2.5" HDD implementation)



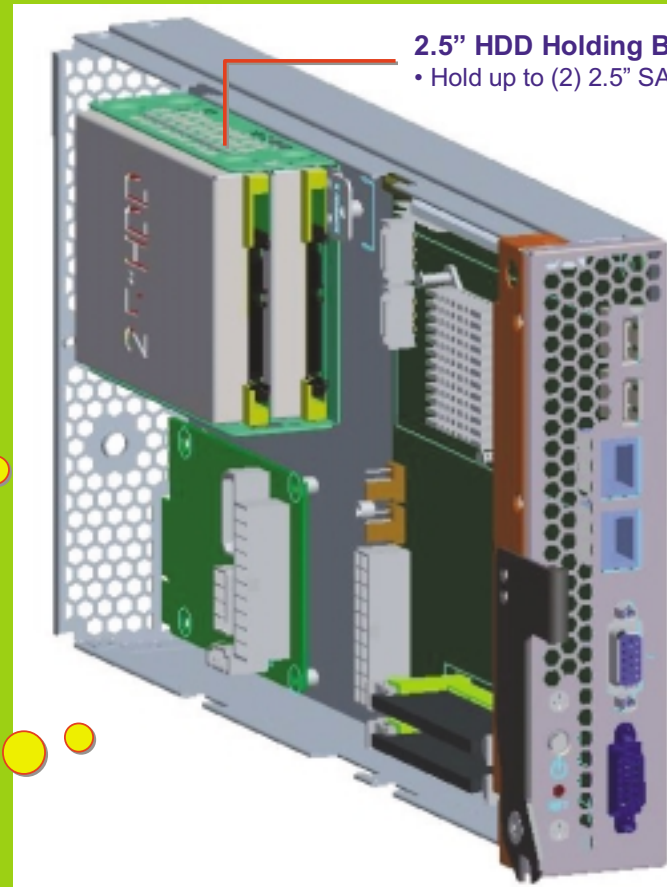
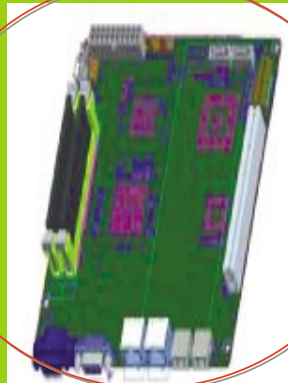
Power distribution board (M3105-PDB)

- Docking to system power backplane board



Motherboard (S3105)

- mini-ITX footprint
- (opt.) IPMI v2.0 compliant



2.5" HDD Holding Bracket

- Hold up to (2) 2.5" SATA-II HDDs

Max. MBD dimension supported: 6.7" x 7.9"

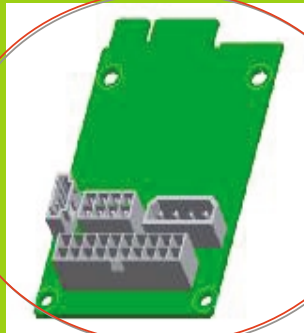
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Individual Node View (3.5" HDD implementation)



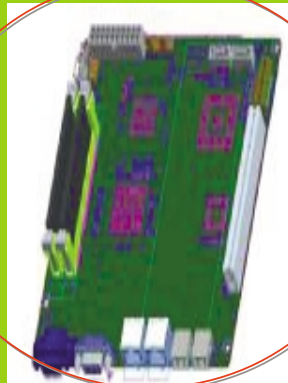
Power distribution board (M3105-PDB)

- Docking to system power backplane board



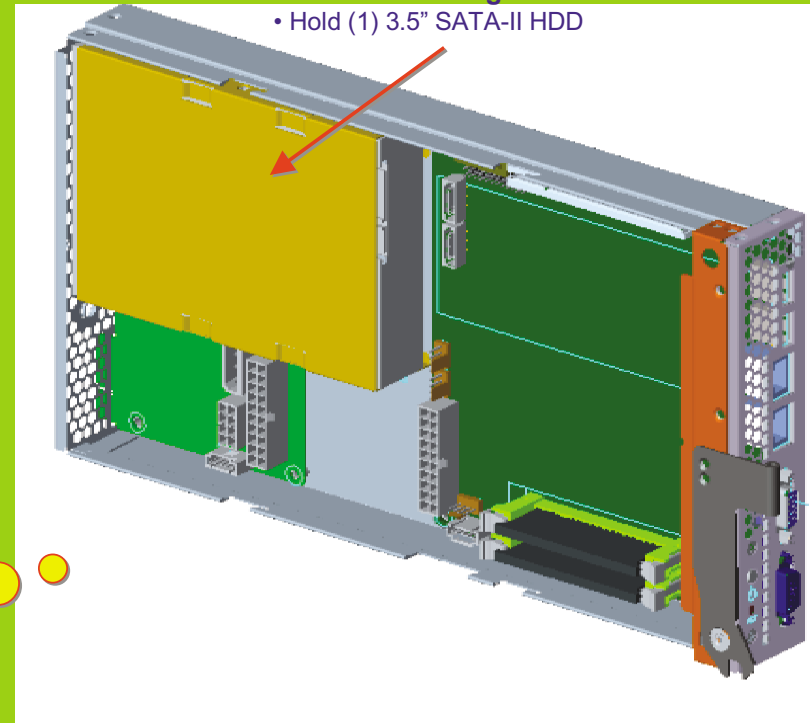
Motherboard (S3105)

- mini-ITX footprint
- (opt.) IPMI v2.0 compliant



3.5" HDD Holding Bracket

- Hold (1) 3.5" SATA-II HDD

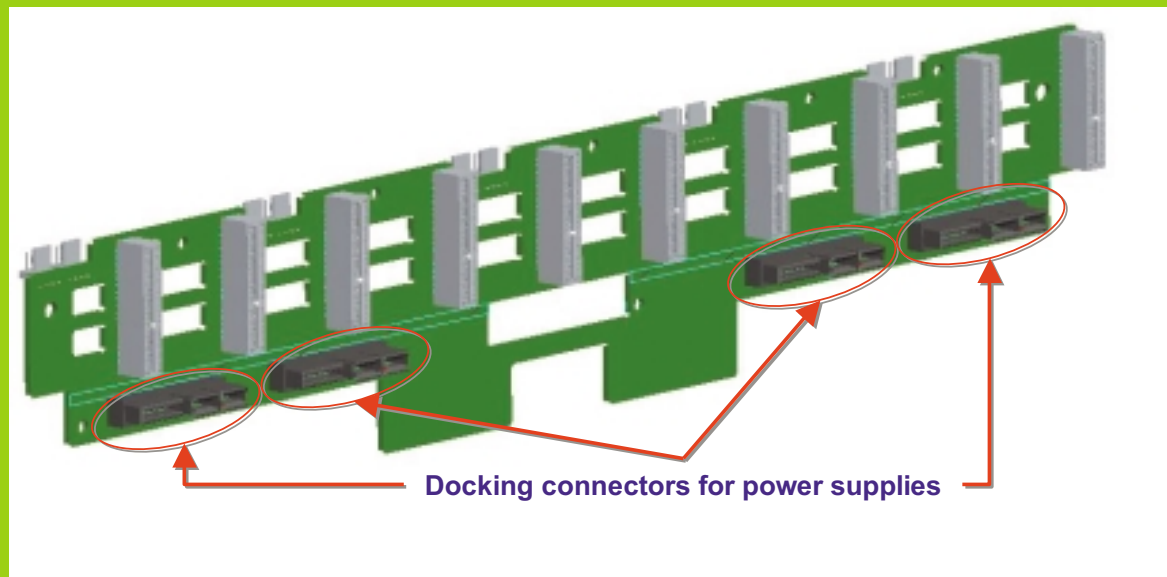


MPC-VT35-B3105

Power Backplane Board



- Support (1+1) ERP1U PSU modules
 - Default (1) PSU is installed
 - *Support (3+1) RPSU for future technology upgrade*
- Support up to (10) nodes
 - Motherboard shall be with mini-ITX footprint
 - Motherboard dimension shall be within 6.7" x 7.9"



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Winning Designs and Target Applications



- Design fits for IPDC environment
 - Node Density
 - (10) nodes in 5U enclosure
 - up to (20) nodes in 5U rack space (back-to-back installation in a rack cabinet)
 - *Max. (160) nodes in a 42U rack cabinet*
 - Low Power Consumption
 - Adoption of Intel® Atom processor
 - Less than 30W power consumption per node
 - Headroom for Future Technology Upgrade
 - *Max. (3+1) redundant PSU (for future higher power-consuming motherboard implementation)*
 - System Manageability
 - Onboard IPMI SKU available
 - System Availability
 - (1+1) redundant PSUs (for VT35-B3105)
 - System Serviceability
 - Hot-swap node cages
- Applications
 - Web-hosting applications in IPDC (Internet Portal Data Center)
 - PC Farm

