

# TYAN

## AMD-BASED CLOUD PLATFORMS



Micro Serve Computing Node



### Lower Power & Higher Density Cloud Platforms Micro Server

The TYAN Micro Server provides high-reliability and scalable performance with 18 removable front-loaded compute nodes, and redundant (2+1) hot-swap power supplies. Each individual node supports a AMD Athlon II X4 / X2 Processors, up to 32 GB of un-buffered ECC DDR3 memory, and two 2.5" SSD or HDD drives. Each node has 1 G-bit network port and features IPMI 2.0 support for out-of-band and remote management.

NEW

AMD Opteron™ 3200 Series Processor

### FM65-B8001

B8001F65X18-160V2R

Cloud Platform  
Lower Power & Higher Density

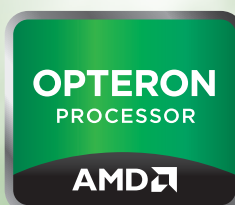


### Most Cost-Effective, High-Density Server Platform for IPDC

- 4U with eighteen (18) front swappable blades
- Up to 32GB main memory supported in single-socket server platform
- (2+1) hot-swappable redundant, 80-PLUS Platinum rated RPSU for all blades



Model Number	FM65-B8001		
Enclosure Form Factor	4U (27.5" in depth) / 18 Nodes		
Supported CPU (per node)	(1) AMD Opteron™ 3250EE/3260EE (Zurich)		
Chipset (per node)	AMD SR5650 + SP5100		
Number of DIMM Slot (per node)	4		
Memory Type (max. capacity) (per node)	U-DDR3 1333/1066 w/ ECC (32GB)		
Storage Controller (per node)	AMD SP5100 (SATA 3Gb/s)		
RAID Support (per node)	RAID 0, 1, 5, 10 (Promise RAID Stack)		
Networking (per node)	(2) GbE (shared IPMI NIC)		
Standard Model	Number of HDD Bay	Storage Backplane	Power Supply
B8001F65X18-160PV2R	(2) Internal 2.5" (per node)	N/A	(2+1) 1,600W RPSU



TYAN offers a full array of products that provide web-based hardware to meet users' business needs toward cloud computing with lower cost. TYAN's AMD Opteron™ 6200/6100 Series Processor based platforms, AMD Athlon™ II XLT Processor and AMD Phenom™ II XLT Processor supporting platforms offer reliability, scalability, flexibility, space density, remote management capability that deliver higher computing performance with lower cost. TYAN's broad product portfolio provides users with multiple hardware solutions that meet the needs of public, private, and hybrid cloud infrastructure.

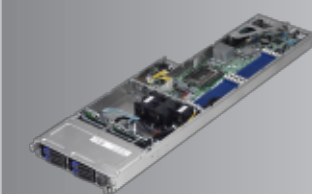
#### Target Applications:

- Cloud Service Providers that Offer Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS)
- E-Commerce and Web-based Mail services
- Online Real Time Streaming Services such as Consulting or Training
- Back-end Office or Remote Office
- Functional Verticals, VARs, or SI that Assist to Deploy Cloud Computing Hardware Environments for Enterprises or SMBs





Yellow River Computing Node



## Higher Density Cloud Platforms TYAN Yellow River Series

The TYAN Yellow River Series is an ultra high density twin server platform that featured with scalable, modular, space effective, manageable, efficient, flexibility and fast through put.

### AMD Opteron™ 4200 Series Processor

#### YR190-B8228-X2 B8228Y190X2-045V4H

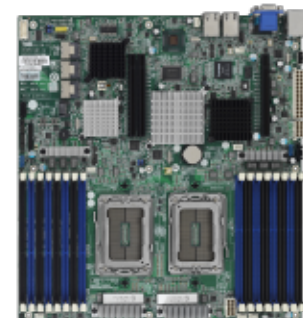


Cloud Platform  
Higher Density



Model Number	YR190-B8228-X2		
Enclosure Form Factor	1U (28.74" in depth) / 2 Nodes		
Supported CPU (per node)	(1) AMD Opteron™ 4200 Series (Valencia)		
Chipset (per node)	AMD SR5650 + SP5100		
Chipset Interconnection (per node)	HyperTransport™ Link 3.0		
Number of DIMM Slot (per node)	12/ 6+6		
Memory Type (max. capacity) (per node)	R-DDR3 1333/1066/800 w/ ECC (192GB) U-DDR3 1333/1066 w/ ECC (96GB)		
Storage Controller (per node)	AMD SP5100 (SATA 3Gb/s)		
RAID Support (per node)	RAID 0, 1, 5, 10 (Promise RAID Stack)		
Networking (per node)	(3) GbE (shared IPMI NIC)		
PCI Expansion Slots (per node)	(1) PCI-E (Gen.2) x16		
Standard Model	Number of HDD Bay	Storage Backplane	Power Supply
B8228Y190X2-045V4H	(4) Hot-swap 2.5" (per node)	4-port SAS/ SATA 3Gb/s	450W PSU (per node)

### AMD Opteron™ 6200 Series Processor



#### S8236-IL

S8236GM3NR-IL / S8236WGM3NR-IL / S8236WGM3NR-HE-IL

Processor	Dual G34 sockets support AMD Opteron™ 6200 series processors (Interlagos)
Chipset	AMD SR5690 + SR5650 + SP5100 (S8236WGM3NR-HE-IL) AMD SR5690 + SP5100 (S8236GM3NR-IL/S8236WGM3NR-IL)
Memory	(8+8) DDR-III DIMM slots Support up to 256GB of R-DDR3 1600/1333/1066/800 w/ ECC memory Support up to 128GB of U-DDR3 1333/1066 w/ ECC memory
Expansion	(3) PCI-E Gen.2 x16 slots
Storage	(2) SATA 3Gb/s ports (Promise RAID stack) (4) SATA 3Gb/s ports by (1) mini-SAS connector (Promise RAID stack) (8) SAS 6Gb/s ports by (2) mini-SAS connectors (LSI RAID stack)
Network	(3) GbE (via Intel® 82576EB and Intel® 82574L)
Video	ASPEED AST2050 Integrated graphics
Management	ASPEED AST2050 (IPMI v2.0 compliant w/ iKVM)
Form Factor	EATX (12" x 13", 305mm x 330mm)

### AMD Opteron™ 6200 Series Processor



#### S8028

S8028GM3NR

Processor	Single G34 socket support AMD Opteron™ 6200 series processors (Interlagos)
Chipset	AMD SR5650 + SP5100 (12) DDR-III DIMM slots
Memory	Support up to 192GB of R-DDR3 1333/1066/800 w/ ECC memory Support up to 96GB of U-DDR3 1333/1066 w/ ECC memory
Expansion	(1) PCI-E Gen.2 x16 slot
Storage	(6) SATA 3Gb/s connectors (Promise RAID stack)
Network	(3) GbE (via Intel® 82576EB and Intel® 82574L)
Video	ASPEED AST2050 Integrated graphics
Management	ASPEED AST2050 (IPMI v2.0 compliant w/ iKVM)
Form Factor	SFF (6.3" x 16.4", 160mm x 416.56mm)

#### YR190-B8028-X2 B8028Y190X2-030V4H



Cloud Platform  
Higher Density



Model Number	YR190-B8028-X2		
Enclosure Form Factor	1U (28.74" in depth) / 2 Nodes		
Supported CPU (per node)	(1) AMD Opteron™ 6200 Series (Interlagos)		
Chipset (per node)	AMD SR5650 + SP5100		
Chipset Interconnection (per node)	HyperTransport™ Link 3.0		
Number of DIMM Slot (per node)	12		
Memory Type (max. capacity) (per node)	R-DDR3 1333/1066/800 w/ ECC (192GB) U-DDR3 1333/1066/ 1600 w/ ECC (96GB)		
Storage Controller (per node)	AMD SP5100 (SATA 3Gb/s)		
RAID Support (per node)	RAID 0, 1, 5, 10 (Promise RAID Stack)		
Networking (per node)	(3) GbE (shared IPMI NIC)		
PCI Expansion Slots (per node)	(1) PCI-E (Gen.2) x16		
Standard Model	Number of HDD Bay	Storage Backplane	Power Supply
B8028Y190X2-030V4H	(4) Hot-swap 2.5" (per node)	4-port SAS/ SATA 3Gb/s (per node)	300W PSU (per node)

### AMD Opteron™ 6200 Series Processor



#### S8238

S8238GM2NRIS / 8238GM2NR-LE

Processor	Dual G34 sockets support AMD Opteron™ 6200 series processors (Interlagos)
Chipset	AMD SR5670 + SP5100 (S8238GM2NRIS) AMD SR5650 + SP5100 (S8238GM2NR-LE)
Memory	(8+4) DDR-III DIMM slots Support up to 192GB of R-DDR3 1333/1066/800 w/ ECC memory Support up to 96GB of U-DDR3 1333/1066 w/ ECC memory
Expansion	(1) PCI-E Gen.2 x16 slot
Storage	(4) SATA 3Gb/s ports by (1) mini-SAS connector (Promise RAID stack)
Network	(2) GbE (via 2x Intel® 82574L) (1) QDR InfiniBand QSFP port (via Mellanox Connect-X2 MT25408A0-FCC-QI)
Video	ASPEED AST2050 Integrated graphics
Management	ASPEED AST2050 (IPMI v2.0 compliant w/ iKVM)
Form Factor	Extended SFF (6.3" x 18", 160.02mm x 457.2mm)

#### YR190-B8238-X2 B8228Y190X2-045V4H



Cloud Platform  
Higher Density



Model Number	YR190-B8238-X2		
Enclosure Form Factor	1U (28.74" in depth) / 2 Nodes		
Supported CPU (per node)	(2) AMD Opteron™ 6200 Series (Interlagos)		
Chipset (per node)	AMD SR5670 + SP5100		
Chipset Interconnection (per node)	HyperTransport™ Link 3.0		
Number of DIMM Slot (per node)	12/ 8+4		
Memory Type (max. capacity) (per node)	R-DDR3 1333/1066/800 w/ ECC (192GB) U-DDR3 1333/1066/ 1600 w/ ECC (96GB)		
Storage Controller (per node)	AMD SP5100 (SATA 3Gb/s)		
RAID Support (per node)	RAID 0, 1, 5, 10 (Promise RAID Stack)		
Networking (per node)	(2) GbE (shared IPMI NIC) + (1) QDR IB		
PCI Expansion Slots (per node)	(1) PCI-E (Gen.2) x16		
Standard Model	Number of HDD Bay	Storage Backplane	Power Supply
B8238Y190X2-045V4H	(4) Hot-swap 2.5" (per node)	4-port SAS/ SATA 3Gb/s (per node)	450W PSU (per node)
B8238Y190X2-045V4HI (BTO)	(4) Hot-swap 2.5" (per node)	4-port SAS/ SATA 3Gb/s (per node)	450W PSU (per node)