

## HIGH-DENSITY 2U SERVER PLATFORM



### YR290-B7018

B7018Y290D2-045V8H/ B7018Y290D2-045W8HR



#### ■ Front View

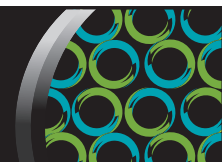


#### ■ Back View



### High-Density 2U dual-socket SMP server implementation for IPDC and enterprise virtualization applications

- ◆ Dual LGA1366 sockets support up to (2) Intel® Xeon® processors 5500/5600 series (codenamed Nehalem-EP/Westmere-EP)
- ◆ Support QPI 6.4/ 5.86/ 4.8 GT/s
- ◆ Intel® 5500 IOH / Intel® ICH10R South Bridge
- ◆ (12) 240-pin DDR3 DIMM slots support up to 96GB R-DDR3 1333/1066/800MHz w/ ECC memory
- ◆ (2) Full-Height + (1) Low-Profile PCI-E (Gen.2) slots on 2U riser sharing (16) PCI-E lanes (B7018Y290D2-045V8H)
- ◆ (1) Full-Height + (1) Low-Profile PCI-E (Gen.2) slots on 2U riser (B7018Y290D2-045W8HR)
- ◆ (3) GbE LAN
- ◆ (8) Hot-swap 2.5" SATA-II HDDs. (Order separately for a 3rd party RAID adapter to enable full RAID functions) (B7018Y290D2-045V8H)
- ◆ (8) Hot-swap 2.5" SAS HDDs. (TYAN P3202 is pre-installed on B7018Y290D2-045W8HR)
- ◆ (Opt.) (1) ultra-slim ODD
- ◆ Onboard BMC w/ IPMI and iKVM support
- ◆ (1) Redundancy ready, ERP1U high-efficiency 450W PSU w/ PFC, 80-PLUS Silver Certified. (B7018Y290D2-045V8H)
- ◆ (1+1) Redundancy ready, ERP1U high-efficiency 450W PSU w/ PFC, 80-PLUS Silver Certified. (B7018Y290D2-045W8HR)



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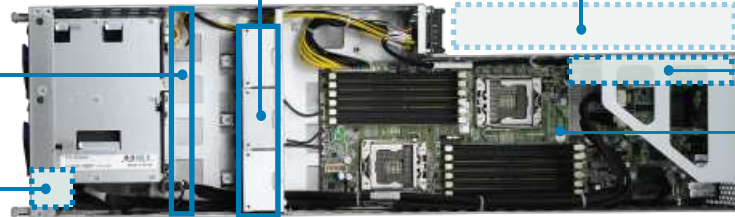
Specifications

## Top View

**Easy-swap System FANs**  
(2) 4056 + (1) 4028

**M7018-BP2**  
8-port SAS/SATA-II  
HDD backplane board w/  
(2) SFF-8087 connectors

**M5376-FPB**  
Integrated front panel board



(1+1) ERP1U 450W  
PSU, 80-PLUS Silver



**M7018-R16-2F1L**  
Provide (2) FH + (1) low-profile  
PCI-E (Gen. 2) slots

**S7018GM3NR**  
(2) LGA1366 sockets  
(6+6) R-DDR3  
1333/1066/800MHz  
Max.96GB , (3) GbE ports,  
Legacy-free Rear I/O

<b>System</b>	<b>Form Factor</b>	2U Rackmount Frame w/ 2x 1U blades
	<b>Chassis Model</b>	YR290
	<b>Dimension (H x W x D)</b>	3.42" x 17.32" x 28.74" (87 x 440 x 730mm)
	<b>Motherboard</b>	S7018GM3NR
	<b>Gross Weight</b>	30 kg (w/ 2 blades installed)
<b>Front Panel (per blade)</b>	<b>Buttons</b>	(1) RST / (1) ID / (1) PWR
	<b>LEDs</b>	(1) Power / (1) BMC / (2) LAN / (1) HDD
	<b>I/O Ports</b>	(2) USB ports
<b>External Drive Bay (per blade)</b>	<b>Type / Q'ty</b>	2.5" Hot-Swap / (4)
	<b>Supported HDD Interface</b>	SAS 3.0Gb/s (via discrete HBA/ RAID solution) SATA-II 3.0Gb/s
<b>Peripherals (per blade)</b>	<b>Type of ODD / Q'ty (Opt.)</b>	Ultra-slim DVD-ROM / (1)
<b>System Cooling Configuration (per blade)</b>	<b>FAN</b>	(3) 6cm fans
	<b>Type</b>	ERP1U hot-swap / (1+1)
<b>Power Supply (per blade)</b>	<b>Input Range</b>	Full-range AC(100-240V)
	<b>Frequency</b>	47 - 63 Hertz
	<b>Output Watts</b>	450 Watts
	<b>Efficiency</b>	PFC / 80-plus Silver
<b>Processor (per blade)</b>	<b>Supported CPU Series</b>	Intel® Xeon® processor 5500/5600 series
	<b>Socket Type / Q'ty</b>	LGA1366 / (2)
	<b>Thermal Design Power (TDP) wattage</b>	Max. up to 95W
	<b>System Bus</b>	Up to 4.8/ 5.86/ 6.4GT/s with Intel® QuickPath Interconnect (QPI) support
<b>Chipset (per blade)</b>	<b>Chipset</b>	Intel® 5500 / ICH10R
<b>Memory (per blade)</b>	<b>Supported DIMM Qty</b>	(6+6) DIMM slots
	<b>DIMM Type / Speed</b>	DDR3 800/1066/1333 RDIMM/UDIMM
	<b>Capacity</b>	Up to 96GB RDIMM / 48GB UDIMM
	<b>Memory channel</b>	6 Channels (3 Channels per CPU)
	<b>Memory voltage</b>	1.5V
<b>Expansion Slots (per blade)</b>	<b>PCI-E (B7018Y290D2-045V8H)</b>	(1) FH/HL PCI-E Gen.2 x16 slot (w/ x16 or x8 link) (1) FH/HL PCI-E Gen.2 x8 slot (w/ x0, x4, or x8 link) (1) HH/HL PCI-E Gen.2 slot (w/ x0 or x4 link)
	<b>Pre-installed TYAN</b>	M7018-R16-2F1L
	<b>PCI-E (B7018Y290D2-045W8HR)</b>	(1) FH/HL PCI-E Gen.2 x16 slot (w/ x8 link) (1) HH/HL PCI-E Gen.2 slot (w/ x4 link)
	<b>Pre-installed TYAN</b>	M7018-R16-1F1Y1L
<b>LAN (per blade)</b>	<b>Port Q'ty</b>	(3)
	<b>Controller</b>	Intel® 82576EB Intel® 82574L
<b>Storage (per blade)</b>	<b>SAS</b>	<b>Controller</b> LSI SAS1068E on TYAN® P3202 HBA <b>Speed</b> 3.0 Gb/s <b>RAID</b> RAID 0/1/1E (LSI integrated RAID)

<b>Storage (per blade)</b>	<b>SATA</b>	<b>Controller</b> ICH10R <b>Speed</b> 3.0 Gb/s <b>RAID</b> RAID 0/1/10/5 (Intel® Matrix RAID)	
	<b>Graphic (per blade)</b>	<b>Connector type</b> D-Sub 15-pin <b>Resolution</b> 1600x1200@60Hz <b>Chipset</b> Aspeed AST2050	
		<b>Input /Output (per blade)</b>	<b>USB</b> (5) USB2.0 ports (2 at rear, 2 at front, 1 type A onboard) <b>COM</b> (1) DB-9 port <b>VGA</b> (1) D-Sub 15-pin VGA port <b>RJ-45</b> (3) GbE ports
<b>System Monitoring (per blade)</b>			<b>Chipset</b> Winbond W83793G <b>Voltage</b> Monitors voltage for CPU, memory, chipset & power supply <b>Temperature</b> Monitors temperature for CPU & system environment <b>LED (On system front)</b> Fan fail LED indicator Over temperature warning indicator <b>Others</b> Watchdog timer support
	<b>Server Management (per blade)</b>		<b>Onboard Chipset</b> Onboard Aspeed AST2050 <b>IPMI 2.0 compliant baseboard management controller (BMC)</b> BIOS update USB 2.0 virtual hub <b>AST2050 iKVM Feature</b> 24-bit high quality video compression Dual 10/100 Mb/s MAC interfaces
		<b>BIOS (per blade)</b>	<b>Brand / ROM size</b> AMI / 4MB <b>Feature</b> Plug and Play (PnP) PCI2.3 /WfM2.0 /SMBIOS2.3 /PXE boot ACPI 2.0 power management Power on mode after power recovery User-configurable H/W monitoring Auto-configurable of hard disk types Multiple boot options
			<b>Operating System</b>
	<b>Regulation</b>	<b>FCC (DoC)</b> Class A <b>CE (DoC)</b> Yes	
<b>Operating Environment</b>		<b>Operating Temp.</b> 10° C ~ 35° C (50° F ~ 95° F) <b>Non-operating Temp.</b> - 40° C ~ 70° C (-40° F ~ 158° F) <b>In/Non-operating Humidity</b> 90%, non-condensing at 35° C	
	<b>RoHS</b>	<b>RoHS 6/6 Complaint</b> Yes	

(Specifications are subject to change without notice. Items pictured may only be representative.)

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