

## HIGH-DENSITY 2U SERVER PLATFORM



## YR290-B7018

B7018Y290D2-045V8H/ B7018Y290D2-045W8HR



### ■ Front View

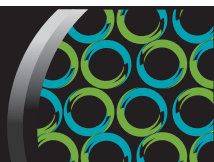


### ■ Back View



### 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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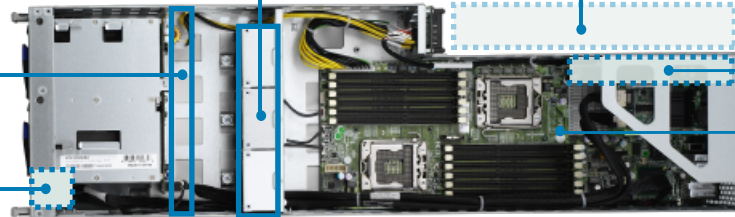
**TYAN**  
Specifications

## 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

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

Storage (per blade)	SATA	Controller	ICH10R
		Speed	3.0 Gb/s
		RAID	RAID 0/1/10/5 (Intel® Matrix RAID)
Graphic (per blade)	Connector type		D-Sub 15-pin
	Resolution		1600x1200@60Hz
	Chipset		Aspeed AST2050
Input /Output (per blade)	USB		(5) USB2.0 ports (2 at rear, 2 at front, 1 type A onboard)
	COM		(1) DB-9 port
	VGA		(1) D-Sub 15-pin VGA port
	RJ-45		(3) GbE ports
System Monitoring (per blade)	Chipset		Winbond W83793G
	Voltage		Monitors voltage for CPU, memory, chipset & power supply
	Temperature		Monitors temperature for CPU & system environment
	LED (On system front)		Fan fail LED indicator Over temperature warning indicator
	Others		Watchdog timer support
Server Management (per blade)	Onboard Chipset		Onboard Aspeed AST2050
	AST2050 IPMI Feature		IPMI 2.0 compliant baseboard management controller (BMC) BIOS update USB 2.0 virtual hub
	AST2050 iKVM Feature		24-bit high quality video compression Dual 10/100 Mb/s MAC interfaces
BIOS (per blade)	Brand / ROM size		AMI / 4MB
	Feature		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
Operating System	OS supported list		Please refer to our OS supported list.
Regulation	FCC (DoC)		Class A
	CE (DoC)		Yes
Operating Environment	Operating Temp.		10° C ~ 35° C (50° F~ 95° F)
	Non-operating Temp.		- 40° C ~ 70° C (-40° F ~ 158° F)
	In/Non-operating Humidity		90%, non-condensing at 35° C
RoHS	RoHS 6/6 Compliant		Yes

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

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