

# Altos | R

## R380 F3

The Altos R380 F3 is a robust two-socket 2U system that is ideal for almost any application. This dynamic system can function as a head node, for virtualization purposes, or as a storage system for your HPC (High-Performance Computing) and technical computing environments. Extremely expandable and highly efficient, this system is a powerful core for your most demanding data-center needs.

### Extremely powerful

The R380 F3 supports up to two Intel® Xeon® E5-2600 v3 product family processors, and high-performance DDR4 memory occupying twenty-four DIMM slots. There is no shortage of storage capability with up to twelve 3.5" or twenty-four 2.5" front-accessible, hot-swap hard drives, two 2.5" internal drive bays and two 2.5" rear-accessible hot-swap hard drive bay options. Hard drives can be configured in 12Gb/s SAS RAID and SAS HBA for increased performance and data availability.

### Highly efficient

As with all Acer rack servers, the R380 F3 uses only 80 PLUS-certified power supplies. This server can be equipped with up to two 750 W or 1100 W 80 PLUS Platinum-level power supplies. Combine this with Load Reduced DIMM memory modules and the latest power-saving chipset technologies; this system delivers maximum performance with minimum power-draw. Six managed, hot-swappable fans keep the system running cool at all times.

### Flexible and robust I/O

Qualified to work in any environment, this system has dual 10 Gigabit or Gigabit Ethernet connectors onboard. It also has up to 7 PCIe 3.0 slots and 1 PCIe 2.0 slot, maximizing your expansion options. In addition, dedicated I/O module and SAS module slots save customers valuable PCIe expansion. Users can rest assured the R380 F3 will keep up in any high-performance scenario.





Mainboard	Processor type	Up to 2 x Intel® Xeon® E5-2600 v3 series			
	Chipset	Intel® C612 chipset			
	Graphics	<ul style="list-style-type: none"><li>Integrated 2D video controller</li><li>16 MB DDR3 memory</li></ul>			
	Memory	Memory type	Registered / Load Reduced DDR4 ECC memory		
		Capacities	8 / 16 GB DIMMs Registered 32 GB DIMMs Load Reduced		
		DIMM number	24		
		Max memory	768GB (LRDIMM) or 384 GB (RDIMM)		
	Expansion slots	<ul style="list-style-type: none"><li>Three riser slots provide:</li></ul>			
		Riser slot 1:	3-slot riser card: 2 x PCIe® 3.0 x8 (x16 connector) and 1 x PCIe® 3.0 x8 (x8 connector), or 2-slot riser card: 1 x PCIe 3.0 x16 (x16 connector) and 1 x PCIe 3.0 x 8 (x8 connector)		
		Riser slot 2:	3-slot riser card: 2 x PCIe® 3.0 x8 (x16 connector) and 1 x PCIe® 3.0 x8 (x8 connector), or 2-slot riser card: 1 x PCIe 3.0 x16 (x16 connector) and 1 x PCIe 3.0 x 8 (x8 connector)		
Riser slot 3:		2-slot riser card: 1 x PCIe 3.0 x8 (x8 connector) and 1 x PCIe 2.0 x 4 (x8 connector)			
Onboard ports	<ul style="list-style-type: none"><li>1 x I/O module expansion slot</li><li>1 x SAS RAID module expansion slot</li></ul>				
	Front:	<ul style="list-style-type: none"><li>LED indicators: power, HDD activity, LAN, system ID</li><li>Front VGA, 2 x USB 3.0 ports (8 x 3.5"/16 x 2.5")</li><li>1 x USB 2.0 port (12 x 3.5"/24 x 2.5")</li></ul>			
	Rear:	<ul style="list-style-type: none"><li>2 x Gigabit or 10Gigabit LAN ports (RJ-45)</li><li>Management port (RJ-45)</li><li>PCIe expansion via riser card</li><li>Serial Port B (optional)</li></ul>	<ul style="list-style-type: none"><li>Video port</li><li>3 x USB 3.0 ports</li><li>Serial Port A (RJ-45)</li><li>2 x 2.5" SSDs (hot-swappable, optional)</li></ul>		
	SAS RAID	Intel® ESRT2 SATA RAID 0, 1, 5, 10 (RAID 5 requires key) or Intel® RSTe software SATA RAID 0, 1, 5, 10 (Windows OS support only) Optional hardware SAS RAID			
LAN controller	Dual-port Intel® I350 Ethernet Controller (1GbE) or Dual-port Intel X540 Ethernet Controller (10GbE)				
Security and service features					
Sub-system availability	Power supply	<ul style="list-style-type: none"><li>Administrator/user password</li><li>Power-on password</li><li>Setup password</li><li>Device boot control</li></ul>			
		<ul style="list-style-type: none"><li>Secure command line interface (SSH)</li><li>Secure browser interface (Secure socket layer - SSL support)</li></ul>			
		<ul style="list-style-type: none"><li>Secure IPMI LAN interface (Authentication, Integrity, and Confidentiality algorithm)</li></ul>			
	System cooling	<ul style="list-style-type: none"><li>1+0/1+1 redundant, hot-swappable power supply units. Three power supply options:<ul style="list-style-type: none"><li>750 W 80 PLUS® Platinum-certified AC power supply</li><li>1100 W 80 PLUS® Platinum-certified AC power supply</li><li>750 W 80 PLUS® Gold-certified DC power supply</li></ul></li></ul>			
	Storage	<ul style="list-style-type: none"><li>Six managed, hot-swappable fans keep the system running cool at all times</li><li>Hard disk form factor: 3.5" or 2.5"</li><li>Type: SAS / SATA / SSD with hot-plug capability</li><li>Front: up to 12 x 3.5" or 24 x 2.5" hard drives or SSDs (option to replace 4 hard drives with 4 PCIe SFF/NVMe SSDs)</li><li>Rear: up to 2 x 2.5" SSDs (optional)</li><li>Internal: up to 2 x 2.5" SSDs (optional)</li><li>Slim-line optical drive (optional)</li></ul>			
Chassis	Form factor	2U rack optimized			
	Removable media bays	Optional slim-line ODD drive			
	Dimensions	750 W SKU 439 (W) x 769 (D) x 89 (H) mm (17.25 x 30.25 x 3.5 inches) 1100 W SKU 439 (W) x 793.8 (D) x 89 (H) mm (17.25 x 31.25 x 3.5 inches)			
	OS support	Microsoft® Windows Server® 2012 R2 SUSE® Linux® Enterprise Server 11 SP3		Red Hat® Enterprise Linux® 6.5 VMware ESXi™ 5.5	
Server management utilities and applications		<ul style="list-style-type: none"><li>Acer Smart Server Manager</li><li>Embedded BMC controller with IPMI 2.0 compatibility</li><li>System ID LED buttons, System Health LED</li><li>Smart Console remote monitoring and optional KVM over IP management to OS level</li><li>Optional Local Control Panel</li></ul>			
Warranty		3-year standard warranty or choose extended warranties and services <sup>1</sup>			
Regulatory compliance	Emissions classification (EMC)	FCC (Class A)	CE (Class A)	BSMI (Class A)	CCC
	Industry standard compliance / safety	MET	CB		

1. Extended warranty services may vary by country. Please contact your Acer authorized reseller for more information.

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