

# AR780 F3

The AR780 F3 offers powerful enterprise grade 4U 4-socket server with unprecedented RAS and scalability. Large enterprises and service providers supporting mission-critical applications and big data analytics in real time require servers with massive memory and performance to capitalize on trends as they emerge.

## Better system performance

AR780 F3 is powered by Intel® Xeon® E7-4800/ 8800 v3 based processors using state-of-the-art 22nm manufacturing technology, with up to 18 cores per processor (or a total of 72 cores per system).

## Reliability

Equipped with Intel® Run Sure Technology, the most advanced RAS features for the Intel® Xeon® E7 family, AR780 F3 reduces planned and unplanned downtime to protect data integrity, which is vital to mission-critical services and enhances data center efficiency.

## Significant I/O throughput and scalability

96 DDR4 DIMM slots designed to achieve platform limitation by capitalizing the Intel Scalable Memory Buffer's capability to its maximum. In addition to the 11 PCIe 3.0 slots with their astonishing expandability, 48 hot-swap HDD slots among them further enhance expandability with serviceability.





## Mainboard

Processor type	Up to 4 x Intel® Xeon® processor E7-8800 v3 / E7-4800 v3 family (up to 18 Cores and 165W TDP)		
Chipset	Intel® C602J chipset		
Graphics	ASPEED 2400		
Memory	<ul style="list-style-type: none"> <li>128 MB shared video memory, 16 MB dedicated</li> <li>96x 288-pin DDR4 DIMM slots</li> <li>Supports up to 6TB DDR4 ECC Registered memory (RDIMM) in 96 DIMM slots</li> </ul>		
Expansion slots	<ul style="list-style-type: none"> <li>11x PCI-E 3.0 slots w/ 48 memory slots (4x PCI-E 3.0 x16 and 7x PCI-E 3.0 x8)</li> <li>8x PCI-E 3.0 slots w/ 96 memory slots (4x PCI-E 3.0 x16 and 4x PCI-E 3.0 x8)</li> </ul>		
I/O ports	<ul style="list-style-type: none"> <li>2 x USB 2.0 ports</li> <li>2x RJ45 10GBase-T ports on AOM</li> <li>1x dedicated LAN port for IPMI on AOM</li> <li>1x DOM (Disk on Module) power connector</li> </ul>	<ul style="list-style-type: none"> <li>Video port</li> <li>Serial port- 2x Fast UART 16550 ports: 1 rear and 1 header</li> </ul>	
AHCI SATA	<ul style="list-style-type: none"> <li>SATA3 (6Gbps) with RAID 0, 1</li> <li>SATA2 (3Gbps) with RAID 0, 1, 5, 10</li> </ul>		
Network controllers (via AOM)	<ul style="list-style-type: none"> <li>Intel X540 Dual-port 10 Gb Ethernet controller</li> <li>1x Realtek RTL8291F PHY (dedicated IPMI)</li> </ul>		
IPMI (via AOM)	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>ASPEED 2400</li> </ul>		

## Security and service features

Chassis intrusion alert	Power-on password	Optional TPM (v1.2-compliant)
Administrator/user password	Setup password	Secure IPMI LAN interface
	Device boot control	(Authentication, Integrity, and Confidentiality algorithm)

## Sub-system availability

Power supply	4 x 1620 W 80 PLUS® platinum-level efficiency, easy-swap power supply units (N+1 redundant, hot-swappable)		
System cooling	<ul style="list-style-type: none"> <li>4x 92mm RPM Hot-Swappable Cooling Fans</li> <li>3x 80mm RPM Hot-Swappable Rear Exhaust Fan</li> </ul>		
Storage	<ul style="list-style-type: none"> <li>24x 2.5" Hard drive bays (default)*</li> <li>48x 2.5" Hard drive bays (optional)</li> </ul>		

## Chassis

Form factor	4U rack optimized
Removable media bays	
Dimensions (WxDxH)	7.0" (178mm) x 17.2" (437mm) x 31.3" (795mm)
Weight	52.16 kg (115 lbs.)

## OS support

Red Hat® Enterprise Linux® 7.1  
VMware ESXi™ 6.0

## Warranty

3-year standard warranty or choose extended warranties and services<sup>5</sup>

## Regulatory compliance

Emissions classification (EMC)	FCC (Class A)	CE (Class A)	BSMI
Industry standard compliance / safety	UL	CB	

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

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