



# Altos R680 F4 server

Altos R680 F4 GPU server, equipped with up to 8x NVIDIA GPUs, can significantly enhance performance by using parallel computing power for various applications, such as oil & gas, defense, financial services, research, manufacturing, media & entertainment and, 3D rendering, deep learning, and mission-critical applications.

## Extremely Powerful

Powered by Intel® Xeon® scalable processors product family's newest member, the Skylake-F CPU with integrated 100 Gigabit Onmi-Path networking fabric, and the DDR4 memory technology, it allows owners to upgrade computing performance without compromising power consumption. This allows you to save unnecessary datacenter cooling cost and achieve higher DCIE (Data center infrastructure efficiency) value.

## Support for 8 x GPUs

To succeed in a competitive world, customers need computing results with greater precision and speed. The "GPU server" supports up to eight PCIe x16 slots for GPU cards. With NVIDIA's GPGPU solutions, this server offers excellent VDI performance with rapid data accessibility from an array of mobile and tablet devices and enables smooth 3D virtual desktop rendering, which cannot be achieved with traditional VDI.

## High Flexible

Adding 9<sup>th</sup> PCIe x16 slot for NVMe deployment or high speed networking like 100 Gigabit EDR Infiniband or Intel Onmi-path fabric. And an internal PCIe x8 storage mezzanine slot for SAS IOC or SAS RAID. Users can rest assured the Altos R480 F4 will keep up in any high-performance scenario.





<b>Mainboard</b>	Processor type	Up to 2 x Intel® Xeon® scalable processors		
	Chipset	Intel® C621 PCH (LBG-1 G) + (4) PLX PEX8747 PCIe Switches		
	Graphics	BMC embedded controller:		
	Memory	Memory type: Registered / Load Reduced DDR4 2666 memory DIMM number: 24 Max memory: 1536GB (RDIMM/LRDIMM)		
	Expansion slots	8 x double-wide PCIe Gen.3 x16 slots for GPU deployment 1 x single-wide PCIe x16 slot 1 x PCIe x8 storage mezzanine card slot 1 x PCIe x8 LAN/InfiniBand mezzanine card slot		
	I/O ports	Front: <ul style="list-style-type: none"> <li>• LED indicators: System status, UID, LAN 1~3, HDD, Individual hot-swap drive bays 0~13</li> <li>• Button: Power with LED, ID, NMI, Reset</li> <li>• 2 x USB 3.0 ports</li> <li>• 1 x VGA port</li> </ul> Rear: <ul style="list-style-type: none"> <li>• Button: ID with LED</li> <li>• 2 x 10GbE LAN ports (RJ-45)</li> <li>• 1 x Serial port</li> <li>• Management port (RJ-45)</li> <li>• 1 x Serial port (optional)</li> </ul>		
Storage RAID	14 x hot-swap 2.5" SATA/SAS 12G HDDs (optional up to 4 x U.2 NVMe SSDs) Intel® RSTe 5.0 software SATA RAID 0, 1, 5, 10 (Windows OS support only) Optional hardware SAS RAID card or SAS IOC			
LAN controller	2 x 10GBASE-T ports (Intel® X550)			
<b>Security and service features</b>	<ul style="list-style-type: none"> <li>• Administrator/user password</li> <li>• Device boot control</li> <li>• Secure browser interface (Secure socket layer - SSL support)</li> <li>• Secure IPMI LAN interface (Authentication, integrity, and confidentiality algorithm)</li> <li>• Power-on password</li> <li>• Secure command line interface (SSH)</li> <li>• Setup password</li> </ul>			
	<b>Sub-system availability</b>	Power supply	(2+1) x 3200 W 80 PLUS® platinum-level hot-swap RPSU	
		System cooling	Six managed, hot-swappable fans keep the system running cool at all times	
		Storage	Hard disk form factor: 2.5" Type: SAS / SATA / SSD with hot-plug capability Front: Up to 14 x 2.5" hard drives or SSDs (support up to 8 x SAS HDDs & 4 x 2.5" U.2 NVMe SSDs) For supporting NVMe bays, an M2093 riser card must be deployed single-wide PCIe x16 slot.	
<b>Chassis</b>	Form factor	4U rack		
	Dimensions (WxHxD)	438mm x 176mm x 770mm		
<b>OS support</b>	<ul style="list-style-type: none"> <li>• Microsoft® Windows Server® 2016/2012 R2/2012</li> <li>• SUSE® Linux® Enterprise Server 12 SP1</li> </ul>		<ul style="list-style-type: none"> <li>• Red Hat® Enterprise Linux® 7.1 / 7.2</li> <li>• VMware ESXi™ 6.0 / 6.0 Update 1</li> </ul>	
	<b>Server management utilities and applications</b>	Acer Smart Server Manager Embedded BMC controller with IPMI 2.0 compatibility System ID LED buttons, System Health LED Smart Console remote monitoring and optional KVM over IP management to OS level		
<b>Warranty</b>	3-year standard warranty or choose extended warranties and services <sup>1</sup>			
<b>Regulatory compliance</b>	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.

