ADLINK
LEADING EDGE COMPUTING

Ampere Altra Developer Rugged

4U Development System with Ampere® Altra® SoC in COM-HPC Server-Type Form Factor



Features

- Ampere® Altra® SoC (Arm Neoverse N1 architecture) with 32/64/96/128 cores
- DDR4 with 6 individual memory channels (32/64/96GB), supporting up to 4x 10GbE and 2x GbE Ethernet
- 64 PCIe Gen4 lanes (3 x16, 2 x4, and 2 M.2 slots)
- Open source firmware (EDKII bootloader with TianoCore/UEFI)
- Arm SystemReady SR, Ubuntu Server 20.04 certified

Specifications

Components	Computer-on-Modue	COM-HPC Server Type module with Ampere® Altra® 32/64/96/128-core SoC with open source EDKII compliant with PICMG COM-HPC: Rev 1.0
	Carrier Board	COM-HPC Server Base in extended ATX form factor
	Memory	32/64/96GB DDR4 RDIMM memory with individual memory channels
	Storage	256GB/512GB/1TB NVMe M.2 SSD
Front I/O	USB Type A	2x USB 3.0/2.0/1.1
	Power button	Powers on/off the system
	Reset button	Resets the system
	LED	HDD LED, 2x GbE Ethernet LED
	USB Type C	Inactive
Rear I/O	GbE	Intel® MAC/PHY based on Intel® Ethernet Controller I210 Interface: 10/100/1000 Mbit/s Ethernet connection
	Mgt. GbE	Up to 100 Mbit/s based on Intel® I210 and AST2500, with out of band management (TBD)
	10GbE	4x 10GbE based on Broadcom controller (optional)
	USB	4x USB 3.0/2.0/1.1
	VGA	Analog VGA display
	Serial	Serial console for debugging
	Power input	100-240V
	Power switch	Runs power to the system (without booting up)

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Specifications

Power	PSU	750 watts
Cooling Solution	Liquid Cooler	Pump and radiator with dual fan
Operating Systems	Preinstalled	Ubuntu Server 20.04.3
	Standard Support	Windows PE (10.0.22000.1), VMware ESXi-Arm Fling v1.8, Fedora Server 35, FreeBSD 13.0-RELEASE, CentOS Stream 9
Mechanical	Dimensions	440mm x 176mm x 468mm (HxWxD)

Ordering Information

AADR-128	Ampere Altra Max M128-26 SOC, 6x 16GB DDR4 DRAM, 1TB M.2 SSD, 4U Chassis with Liquid Cooling, 750-watt power supply
AADR-128-BCM	4x10G Ampere Altra Max M128-26 SOC, 6x 16GB DDR4 DRAM, 1TB M.2 SSD, 4x 10GbE Ethernet, 4U Chassis with Liquid Cooling, 750-watt power supply

*For SKUs not listed, please contact your ADLINK representative for availability.



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