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)

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.

Front View

Power button
Reset button
HDD LED
LAN1 LED
LAN2 LED
USB3 x2

Back View

Serial Console
LAN1 GbE
LAN2 Mgt. GbE
100-240V AC Input
VGA
USB3 x4