

AIMB-592

AMD EPYC 7003 Zen 3 Core, MicroATX with 4 PCIe X 16 Slots, 2 10GbE LANs, 2 2.5GbE LANs, 5 USB 3.2 Gen1, IPMI 2.0

Preliminary



WISE-DeviceOn

Features

- Supports AMD EPYC™ 7003 up to 64 Zen 3 cores
- Supports 4 PCIe Gen 4 x16 slots
- Supports 128GB DDR4 3200MHz with 6 RDIMMs
- Supports 2 10GbE, 2 2.5GbE LANs, 1 BMC LAN
- Max up to 5 USB 3.2 Gen1, 4 PCIe x16, 6 DDR4, 8 SATA III, 2 PCIe x4 slimline SAS, 1 COM, 1 VGA
- WISE-DeviceOn and Embedded Software APIs

Software APIs:    

Utilities:  

Specifications

Processor System	CPU	7313P	7543P	7713P		
	Core Number	16	32	64		
	Max. Speed	3.7GHz	3.7GHz	3.675GHz		
	Intel Smart Cache (L3)	128MB	256MB	256MB		
	TDP (W)	155W	225W	225W		
	Supports Model	AIMB-592F, AIMB-592L				
Expansion Slot	PCIe x16 (Gen4)	4 slots				
	Slimline SAS 4i	2 slimline SAS connector support 2 x PCIe x4 SAS				
Memory	Technology	6 Channel DDR4 up to 3200, ECC memory supported				
	Max. Capacity	768GB (128 GB per DIMM)				
	Socket	6 RDIMM 288-pin				
Graphics	Controller	BMC (AST2500/AST2510)				
Ethernet	Controller	LAN1: 2.5GbE Intel i226-LM (AIMB-592F/AIMB-592L) LAN2: 2.5GbE Intel i226-LM (AIMB-592F/AIMB-592L) LAN3: 10GbE Intel X550 (AIMB-592F) LAN4: 10GbE Intel X550 (AIMB-592F) LAN5: BMC LAN (AIMB-592F)				
	Connector	RJ45 x5 (592F) / RJ45 x3 (592L)				
SATA	Max Data Transfer Rate	600 MB/s Max. (SATA 3.0)				
	Q'ty	8 (AIMB-592F/AIMB-592L)				
Rear I/O	VGA	1				
	Ethernet	5 (AIMB-592F); 2 (AIMB-592L)				
	Serial	1 RS-232				
	USB 3.2 Gen1	4 (AIMB-592F/AIMB-592L)				
Internal Connector	USB 3.2 Gen1	1 (AIMB-592F/AIMB-592L)				
	SATA 3.0	8				
	M.2 (M key)	1 (2280 NVMe PCIe x4 support (AIMB-592F/AIMB-592L))				
	GPIO	8-bit GPIO				
Management Interface	IPMI	IPMI 2.0				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1 ~ 255 sec/min				
Power Requirements	Power On	+5 V	3.3 V	12 V	-12V	GND
		13.3A	36.2A	33.5A	0A	5VSB 3A
Environment	Temperature	Operating			Non-Operating	
		0 ~ 45° C (32 ~ 113° F), depends on CPU speed and cooler solution			-40 ~ 85° C (-40 ~ 185° F)	
Physical Characteristics	Dimensions	244 mm x 244 mm (9.6" x 9.6")				
Power	Input Mode	ATX input				