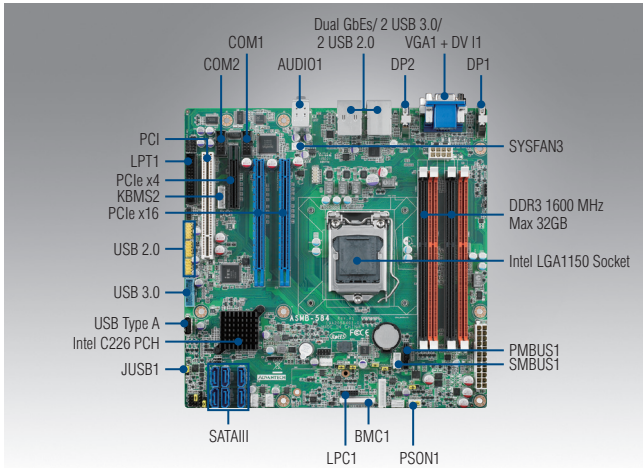


ASMB-584

LGA 1150 Intel® Xeon® E3 v3/ 4th Generation Core™ Micro ATX Server Board with 2 PCIe x16 slots (x8 link), 1 PCIe x4, 1 PCI, USB 3.0, Dual LANs



Features

- Supports LGA 1150 Intel® Xeon® E3 v3 and 4th Generation Core™ i7/i5/i3 processors
- DDR3 1600 MHz ECC UDIMM up to 32GB
- Two PCIe x16 slots (x8 link), one PCIe x4 and one PCI slots
- Rackmount optimized placement with positive air flow design
- Supports Intel vPro, AMT 9.0, IPMI (optional), Software RAID 0, 1, 5, 10 and Embedded software APIs/utilities

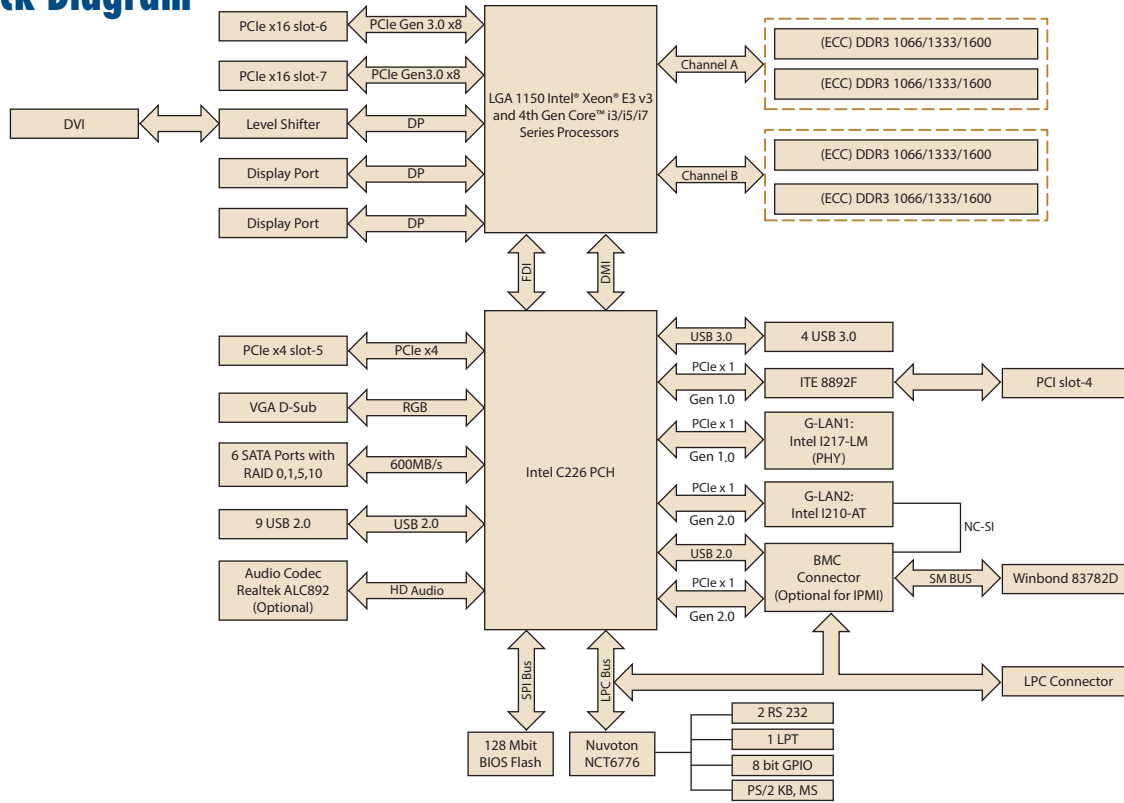


Specifications

Form Factor		Micro ATX form factor
Processor System	Socket	Intel LGA 1150
	CPU type	Intel® Xeon® E3-1200 v3 and Core™ i3/i5/i7 series (TDP up to 84W)
Core Logic	Chipset	Intel C226 chipset
Memory	Total slots	4 (Dual Channel)
	Max. capacity	32 GB
	Memory type	DDR3 ECC/Non-ECC 1600/1333/1066 MHz UDIMM (240-pin)*
	Memory size	1 GB, 2 GB, 4 GB, 8 GB
Expansion Slots	Total PCI/PCI-X/PCIe slots	4
	Slot location 1	-
	Slot location 2	-
	Slot location 3	-
	Slot location 4	PCI
	Slot location 5	PCIe x4 (Gen2 x4 link)
	Slot location 6	PCI x16 slot (Gen3 x8 link)
Graphics	Controller	Intel HD Graphics
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed
Storage	SATA controller	Intel C226: 6 SATA3 6 Gb/s ports with Intel Matrix Storage support (for Windows only) (Supports software RAID 0, 1, 10 & 5)
	SAS controller	-
Networking	Interface	10/100/1000 Mbps
	Controller	GbE LAN1: Intel I217-LM; GbE LAN2: Intel I210-AT
	Connector	RJ-45 x 2
Onboard I/O Connectors	Printer Port connector	1
	PSU connector	24-pin SSI power connector + 8-pin SSI 12V power connector
	USB connector	2 USB 3.0; 7 USB 2.0 (1 x USB Type-A)
	Fan header	5 (4-pin)
	SMBus	2
	Chassis intruder	1
	Front LAN LED	1
	Serial port header	2 (RS-232)
	Audio Connector	1 (ALC 892)
	PS/2 KB/Mouse	1
Rear I/O Connectors	External serial port	-
	External USB port	4 (2 USB 3.0 and 2 USB 2.0)
	VGA port	1
	DVI	1
	Display Port	2
	RJ-45	2 for G2 version
	PS/2 KB/mouse	-
Watchdog Timer	Output	System reset
	Interval	Programmable 1 – 255 sec
Power Requirement	Power On	Intel LGA1150 2.6GHz; DDR3 4G x4
		3.3 V 5 V 12 V 12V_8P 5 Vsb -12 V
Environment	Operating	Non-operating
		0 – 60° C (32 – 140° F)
		Depends on CPU speed and cooler solution
Physical Characteristics	Dimensions	244 x 244 mm (9.6" x 9.6")
		Humidity

*Memory ECC function enable or not depends on processor supporting.

Block Diagram



Ordering Information

Part Number	Chipset	Memory	LAN	DVI	Display Port	IPMI	PCI / PCIe Slots
ASMB-584G2-00A1E	C226	DDR3 ECC UNB/Non-ECC	2	1	2	Optional Module	1 / 3
ASMB-584G2-00A2E*	C226	DDR3 ECC UNB/Non-ECC	2	1	2	Optional Module	0 / 3
ASMB-584VG-00A1E	C226	DDR3 ECC UNB/Non-ECC	1	1	N/A	N/A	1 / 3

*ASMB-584G2-00A2E is designed for 1U & 2U chassis with riser.

Packing List

Part Number	Description	Quantity
2066S58402	Driver CD	x 1
2006S58410	Startup manual	x 1
1700003194	SATA data cables	x 2
1700022749-11	SATA power cables	x 2
19Z0000470T000	I/O shield	x 1

I/O View



ASMB-584G2-00A1E
ASMB-584G2-00A2E



ASMB-584VG-00A1E

Optional Accessories

Part Number	Description
1700002204	Dual port USB 2.0 cable (27 cm) with bracket
1700008461	Four port USB 2.0 cable (30.5 cm) with bracket
1960052651N021	LGA 1151/1150/1155 CPU cooler for 2U/4U and wallmount chassis (side-flow type)
1960049408N001	LGA 1151/1150/1155 1U CPU Cooler and supports up to 84W processor
19Z0001023T000	1U I/O shield
1700008809	Printer port cable kit (25 cm)
1700020294-01	Printer port cable kit (42 cm)
1701090401	COM port cable with bracket (40 cm)
1700020277-01	Dual port USB 3.0 cable with bracket (30 cm)
ASMB-RF348-21A1E	2U riser card (PCIe x16 to 2 PCIe x4 + 1 PCIe x8)
AIMB-RF10F-01A1E	1U riser card (PCIe x16 to PCIe x16)
IPMI-1000-00A1E	IPMI 2.0 Module
PCA-TPM-00A1E	TPM Module with Infineon TPM 1.2 solution

Note 1: It's a must to install PCA-TPM-00A1E for enabling Intel vPro feature. TPM and IPMI modules are installation alternatives.

Note 2: Purchasing ASMB-584's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with ASMB-584.

HPC-7140

1U Rackmount Server Chassis for MicroATX/ATX Server board with 4 x 3.5" Hot-swap Drive Bays and 1 full-height/half-length PCI-E x16 Expansion Slot



CE FCC

Features

- 1U rackmount server chassis supports MicroATX/ATX motherboard
- Four hot swap 3.5" SAS/SATA/SSD drive bays
- Support 1U single and redundant power supply
- Easy swap and anti-vibration FAN design
- Two front USB and one front COM ports

Specifications

Form Factor Support	MicroATX/ATX	
Expansion Slots	PCIe x16 Full Height / Half Length x1	
Drive Bay	Slim ODD Bay	1 (ODD should be purchased separately)
	5.25" (front-accessible)	-
	3.5" (hot-swappable)	4 x SATA III / SAS 6Gb/s
	3.5" (internal)	-
	2.5" (hot-swappable)	Optional
Cooling	2.5" (internal)	-
	Chassis Fan	4 x Swappable 40mm PWM fan module
	Air Filter	-
System Monitoring	Chassis intrusion switch	
Front I/O Interface	USB 2.0	2
	COM Ports	1
Miscellaneous	LED Indicators	System : Power, LAN1, LAN2, HDD, System Information
	Rear Panel	HDD Tray: HDD Power and Activity LED
Environment	Operating Temperature	0 ~ 35° C (32 ~ 95° F)
	Non-Operating Temperature	-40 ~ 70° C (-40 ~ 158° F)
	Humidity	10 ~ 85% @ 40° C non-condensing
	Humidity	10 ~ 95% @ 40° C, non-condensing
Physical Characteristics	Vibration (5-500 Hz)	0.25Grms
	Vibration	0.5Grms
Physical Characteristics	Dimensions (W x H x D)	437 x 43 x 504 mm (17.2" x 1.7" x 19.85")

Front View



Rear View

Single Power Supply SKU

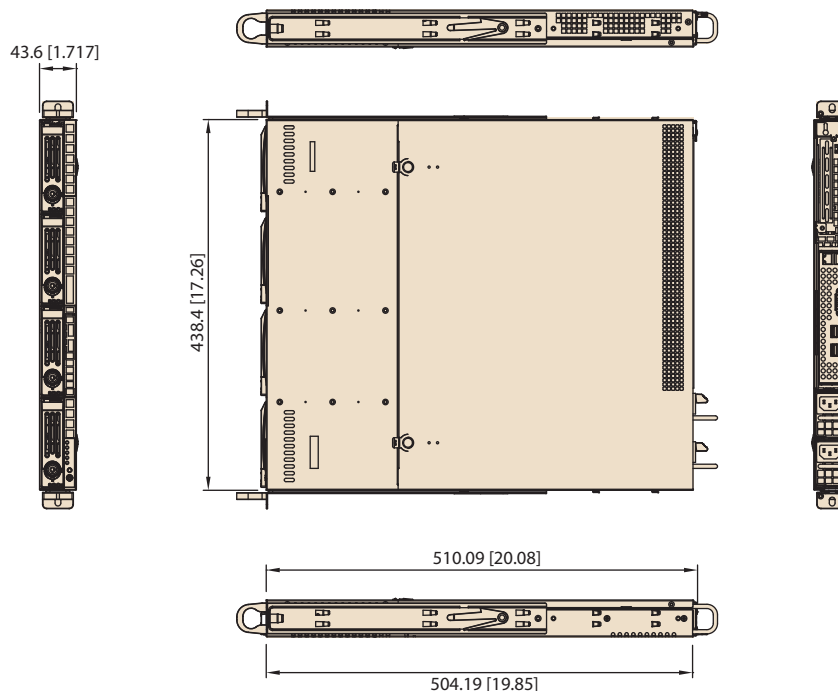


Redundant Power Supply SKU



Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
HPC-7140-00A1E	HPC-7140 1U 4 bays server chassis (w/o SPS)
HPC-7140-R4A1E	HPC-7140 1U 4 bays server chassis (w/400W RPS)

Note: Standard HPC-7140-R4A1E does not support PMBUS function. This function only support by project-based.

Packing List

Items	Quantity
Hot-Swap 3.5" HDD tray with SATA cable (Pre-install)	4
Accessory Box	1

Power Supply Options

Part Number	80 Plus Grade	Wattage	Type	Input
XARR-CPS-2511-1A2	Bronze	250W	Single	AC 100 ~ 240V (full range)
XARR-CPS-6811-2A12	Gold	680W	Single	AC 100 ~ 240V (full range)

Optional Accessories

Part Number	Description
96CB-SAS-SATA-4P1	Cable mini SAS to 4-port SATA*
19Z0001023T000	1U IO Shield for ASMB-584
19Z0000747T000	1U IO Shield for ASMB-784
19Z0000406T000	1U IO Shield for ASMB-781/782/820
19Z0000811T000	1U IO Shield for ASMB-822/813
19Z0000806T000	1U IO Shield for ASMB-823
1703040150	A Cable B4P-5.08/B4P-5.08*2 15cm*
96CB-SATAPOWER-6P1	SATA POWER ADAPTER 6PIN TO BIG 4 PIN(G) for Slim ODD
AIMB-RF10F-01A1E	1U PCIe x16 to PCIe x16 Riser Card
1990026944T000	ASMB-823 Mylar FAN DUCT for HPC-7140*
9680016633	2.5" HDD Bracket for Swappable HDD Tray
9680016684	19" - 26.4" Rail Kit for HPC-7140
9680016685	25.6" - 33" Rail Kit for HPC-7140

* Note:

- When using add-on RAID Card with Mini-SAS connector(s), purchasing 96CB-SAS-SATA-4P1 cable is a MUST.
- HPC-7140 does not support AIMB-701, AIMB-780, AIMB-781, AIMB-782, AIMB-784
- HPC-7140 only support up to 30° C when installed ASMB-823
- When installing Slim ODD in HPC-7140-R4A1E, purchasing 1703040150 is a MUST
- Purchasing 1990026944T000 is a MUST while using dual CPU on ASMB-823