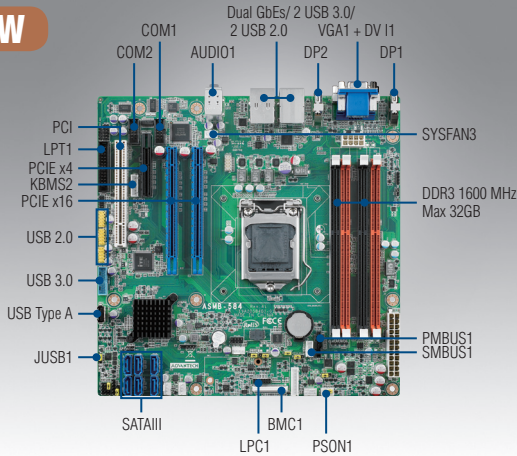


ASMB-584

LGA 1150 Intel® Xeon® E3 V3 Micro ATX Server Board with 2 PCIe x16 slots (x8 link), 1 PCIe x4, 1 PCI, USB 3.0, PCIe Gen III, Dual LANs

NEW



Features

- Supports LGA 1150 Intel® Xeon® E3 V3 processors
- Two PCIe x16 slots (x8 link), one PCIe x4 and one PCI slots
- DDR3 1600 MHz ECC UDIMM up to 32GB
- 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

Software APIs:



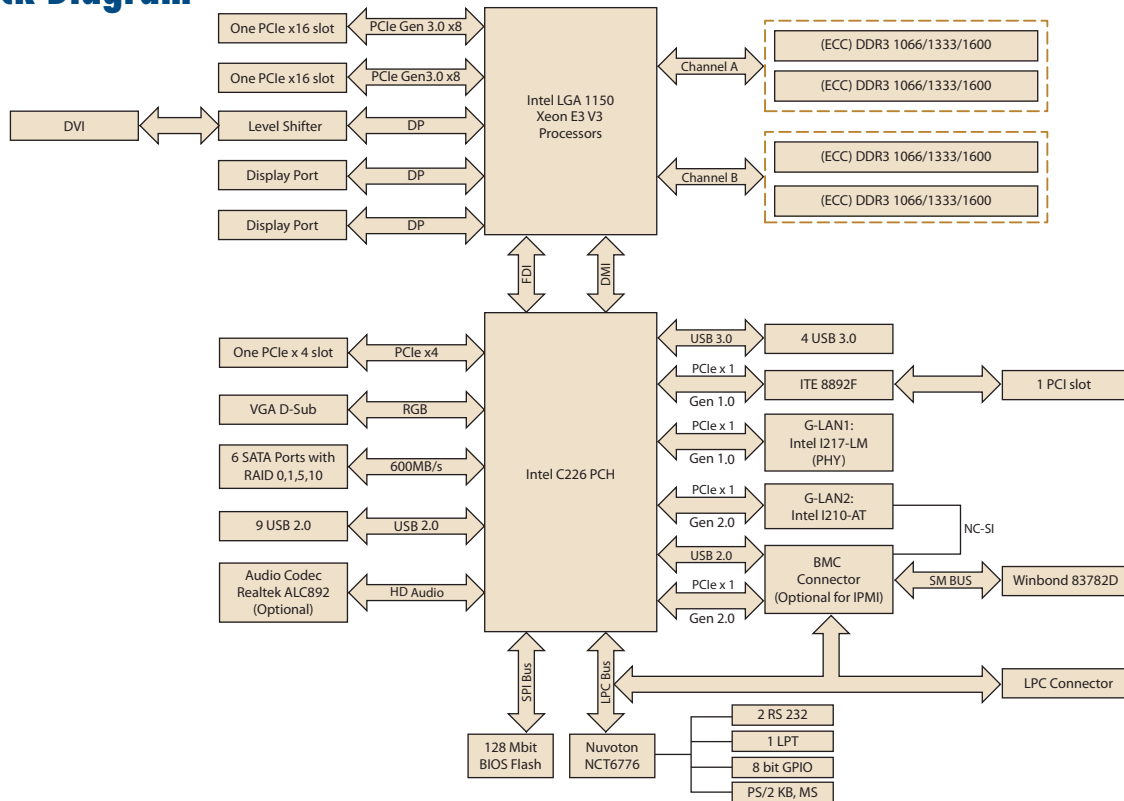
Utilities:



Specifications

| Form Factor | Micro ATX form factor | | | | | | | |
|--------------------------|-------------------------|---------------------------------------------------------------------------------------|-----------------|-----------------|---------------|----------------------------|--------------|--|
| Processor System | CPU | Xeon E3-1275 v3 | Xeon E3-1225 v3 | Xeon E3-1268 v3 | Core i7-4770S | Core i5-4570TE | Core i3-4330 | |
| | Cores | 4 | 4 | 4 | 4 | 2 | 2 | |
| | Speed (GHz) | 3.5 | 3.2 | 2.3 | 3.1 | 2.7 | 3.5 | |
| | L3 Cache | 8 MB | 8 MB | 8 MB | 8 MB | 4 MB | 3 MB | |
| | Socket | LGA 1150 | | | | | | |
| | Chipset | Intel C226 chipset | | | | | | |
| Memory | BIOS | AMI 128 Mbit SPI (UEFI) | | | | | | |
| | Technology | Dual Channel DDR3 Unbuffered ECC/Non-ECC 1066/1333/1600 MHz | | | | | | |
| | Max. Capacity | 32 GB | | | | | | |
| | Socket | 4 x 240-pin DIMM | | | | | | |
| Expansion Slots | Memory size | 1 GB, 2 GB, 4 GB, 8 GB | | | | | | |
| | PCI 32-bit/33 MHz | 1 slots | | | | | | |
| | PCIe x4 (Gen2) 2.0 GB/s | 1 slots | | | | | | |
| Graphics | PCIe x8 (Gen3) 8 GB/s | 2 slots (x16 slot with x8 link) | | | | | | |
| | Controller | Intel HD Graphics | | | | | | |
| Storage | VRAM | 1 GB maximum shared memory with 2 GB and above system memory installed | | | | | | |
| | SATA controller | Intel C226: 6 SATA3 6 Gb/s ports with Intel Matrix Storage support (for Windows only) | | | | | | |
| Ethernet | SAS controller | - | | | | | | |
| | Interface | 10/100/1000 Mbps | | | | | | |
| Internal Connectors | Controller | GbE LAN1: Intel I217-LM; GbE LAN2: Intel I210-AT | | | | | | |
| | Connector | RJ-45 x 2 | | | | | | |
| | Printer Port connector | 1 | | | | | | |
| | PSU connector | 24-pin SSI power connector + 8-pin SSI 12 V power connector | | | | | | |
| | USB connector | 2 USB 3.0; 7 USB 2.0 (1 x USB Type-A) | | | | | | |
| | Fan header | 5 x 4pin | | | | | | |
| | SMBus | 2 | | | | | | |
| | Chassis intruder | 1 | | | | | | |
| | Front LAN LED | 1 | | | | | | |
| | Serial port header | 2 (RS-232) | | | | | | |
| Rear I/O Connectors | Audio Connector | 1 (ALC 892) | | | | | | |
| | PS/2 KB/Mouse | 1 | | | | | | |
| | 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 | | | | | | | |
| Watchdog Timer | PS/2 KB/mouse | - | | | | | | |
| | Audio | 2 (Mic-in, Line-out) | | | | | | |
| Power Requirement | Output | System reset | | | | | | |
| | Interval | Programmable 1 ~ 255 sec | | | | | | |
| Environment | Power On | Intel LGA1150 2.6GHz; DDR3 4G x4 | | | | Non-operating | | |
| | Operating | 3.3 V | 5 V | 12 V | 12V_8P | 5 Vsb | -12 V | |
| Physical Characteristics | Non-operating | 3.7 A | 2.22 A | 0.07 A | 3.77 A | 0.12 A | 0.02 A | |
| | Temperature | 0 ~ 60° C (32 ~ 140° F) Depends on CPU speed and cooler solution | | | | -40 ~ 85° C (-40 ~ 185° F) | | |
| | Humidity | 0% ~ 90% | | | | 5% ~ 95% (Non-condensing) | | |
| | Dimensions | 244 x 244 mm (9.6" x 9.6") | | | | | | |

Block Diagram



Ordering Information

| Part Number | Chipset | Memory | LAN | DVI | Display Port | IPMI |
|------------------|---------|----------------------|-----|-----|--------------|-----------------|
| ASMB-584G2-00A1E | C226 | DDR3 ECC UNB/Non-ECC | 2 | 1 | 2 | Optional Module |
| ASMB-584VG-00A1E | C226 | DDR3 ECC UNB/Non-ECC | 1 | 1 | N/A | N/A |

Packing List

| Part Number | Description | Quantity |
|----------------|-------------------|----------|
| 2066S58400 | Driver CD | x 1 |
| 2066S58410 | Startup manual | x 1 |
| 1700003194 | SATA data cables | x 2 |
| 1703150102 | SATA power cables | x 2 |
| 19Z0000470T000 | I/O shield | x 1 |

Bracket View



ASMB-584G2-00A1E



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 |
| 1960047669N001 | LGA 1150/1155/1156 CPU cooler for 4U and wallmount chassis |
| 1960047831N001 | LGA 1150/1155/1156 CPU cooler for 2U and wallmount chassis |
| 1960052651N001 | LGA 1150/1155/1156 CPU cooler for 2U and wallmount chassis (side-flow type) |
| 1960049408N001 | LGA 1150/1155/1156 1U CPU Cooler and supports up to 84W processor |
| 1960063225N000 | 1U I/O bracket for ACP-1320 chassis only |
| 1700008809 | Printer port cable kit (25 cm) |
| 1700020294-01 | Printer port cable kit (42 cm) |
| 1701090401 | COM port cable with bracket |
| 1700020277-01 | Dual port USB 3.0 cable with bracket |
| AIMB-AUDIO-HDA1E | HD Audio-Card |
| 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.