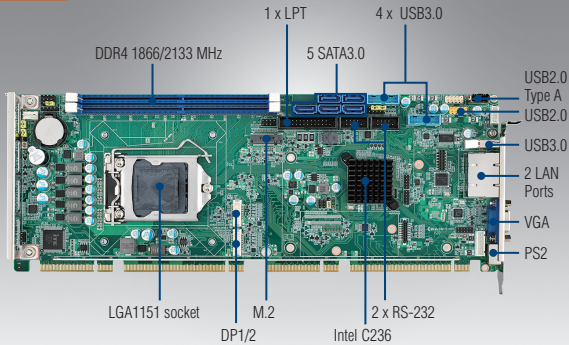


PCE-7129

6th Generation Intel® Xeon®/Core™ i7/ i5/i3/Pentium® LGA1151 System Host Board with DDR4, SATA 3.0, USB 3.0, M.2, Dual GbE, and Triple Displays

NEW



Features

- Intel® Xeon® E3-1200v5/Core™ i7/i5/i3 LGA1151 processor with C236 chipset
- Up to 32 GB of dual-channel (non-ECC) DDR4 1866/2133 MHz
- PCIe 3.0, M.2, USB 3.0, SATA 3.0, and SW Raid 0, 1, 5, 10
- Supports CRT and 2 x DVI-D/DP display (with optional cable)
- Supports out-of-band remote management with AMT 11.0
- Supports Advantech's LPC modules, SUSIAccess, and embedded software APIs

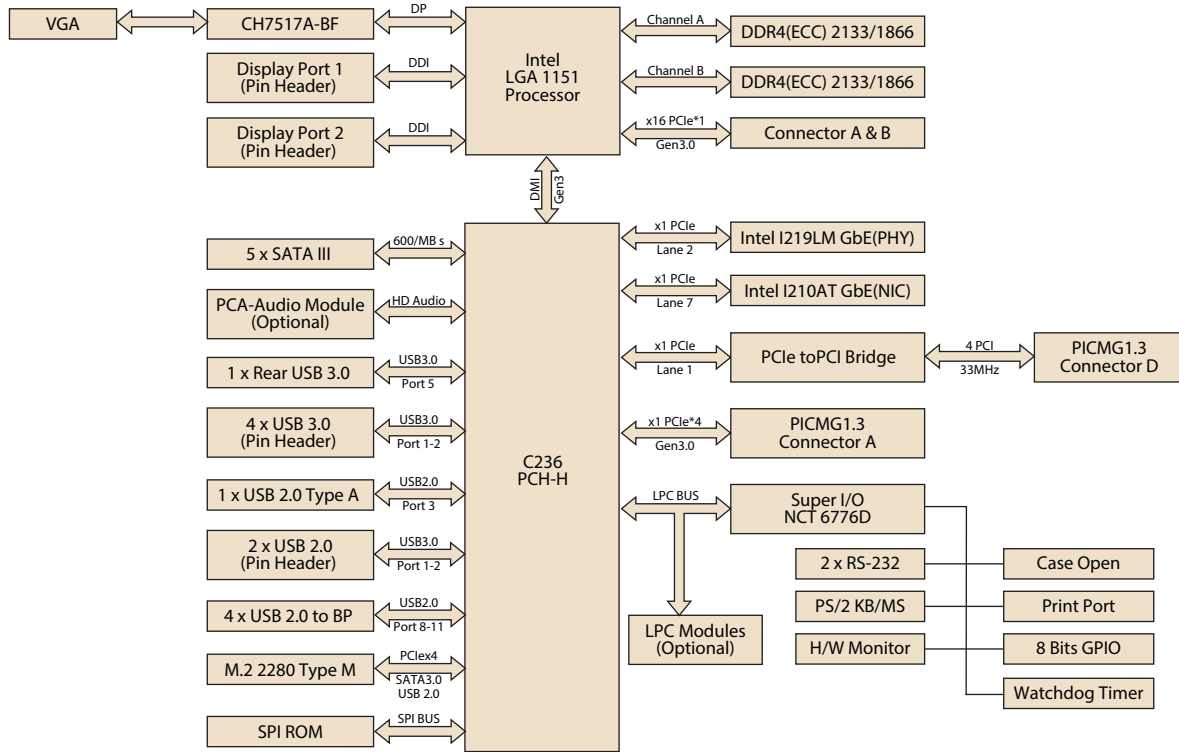
Quiet

CE FCC

Specifications

| | | | | | | | | | | | | | | | | | |
|--------------------|-------------------------|--|-----------|------------|---------|-----------|---------|-----------|---------|-----------|--------|---------|--------|--|--|--|--|
| Processor System | CPU | E3-1275v5 | E3-1225v5 | E3-1268Lv5 | i7-6700 | i7-6700TE | i5-6500 | i5-6500TE | i3-6100 | i3-6100TE | G4400 | G4400TE | G3900 | G3900TE | | | |
| | Base Frequency | 3.6GHz | 3.3GHz | 2.4GHz | 3.4GHz | 2.4GHz | 3.2GHz | 2.3GHz | 3.7GHz | 2.7GHz | 3.3GHz | 2.9GHz | 2.8GHz | 2.6GHz | | | |
| | L3 Cache | 8MB | 6MB | 8MB | 8MB | 8MB | 6MB | 6MB | 4MB | 4MB | 3MB | 3MB | 2MB | 2MB | | | |
| | SKU/Chipset | Intel® C236 | | | | | | | | | | | | | | | |
| Bus | BIOS | AMI® SPI Flash 128 Mbit | | | | | | | | | | | | | | | |
| | PCI-Express | 1 x PCIe x16/2 x PCIe x8 and 1 x PCIe x4 to backplane | | | | | | | | | | | | | | | |
| Memory | PCI | 4 x PCI master to backplane, 32-bit, 33 MHz | | | | | | | | | | | | | | | |
| | Technology | Dual-channel (non-ECC) U-DIMM DDR4 1866/2133 MHz (supports x8 DDR4 1024 M) (Note: Intel ECC-supported processor must be selected to enable ECC function) | | | | | | | | | | | | | | | |
| | Max. Capacity | 32 GB (16 GB per DIMM) | | | | | | | | | | | | | | | |
| Graphics | Socket | 2 x DDR4 288-pin DIMM | | | | | | | | | | | | | | | |
| | Controller | Chipset integrated with Intel® HD Graphics | | | | | | | | | | | | | | | |
| | VRAM | Shared system memory is subject to OS | | | | | | | | | | | | | | | |
| | CRT | Supports resolutions of up to 1920 x 1200 pixel @ 60 MHz | | | | | | | | | | | | | | | |
| | DVI-D | Supports resolutions of up to 1920 x 1200 pixel @ 60 MHz | | | | | | | | | | | | | | | |
| Ethernet | Display Port | Supports resolutions of up to 1920 x 1080 pixel @ 60 Hz | | | | | | | | | | | | | | | |
| | Triple Display | CRT+DP/DVI-D+DP/DVI-D | | | | | | | | | | | | | | | |
| | Interface | 10/100/1000 Mbps | | | | | | | | | | | | | | | |
| Rear I/O | Controller | LAN 1: Intel® I219-LM LAN 2: Intel® I210-AT | | | | | | | | | | | | | | | |
| | Connector with LED | 2 x RJ45 | | | | | | | | | | | | | | | |
| | USB 3.0 | 1 | | | | | | | | | | | | | | | |
| | Ethernet | 2 | | | | | | | | | | | | | | | |
| Internal Connector | VGA | 1 | | | | | | | | | | | | | | | |
| | PS/2 | 1 (PS/2 Y cable supports 1 x keyboard and 1 x mouse) | | | | | | | | | | | | | | | |
| | USB | 7 x USB 2.0 (pin header*2 + USB Type A*1 + 4 on backplane) 4 x USB 3.0 (pin header) | | | | | | | | | | | | | | | |
| | SATA (SW Raid 0,1,5,10) | 5 | | | | | | | | | | | | | | | |
| | M.2 (2280 Type M) | 1 (supports SATA 3.0 or PCIe x4) | | | | | | | | | | | | | | | |
| | DP/DVI-D | 2 (Pin header) | | | | | | | | | | | | | | | |
| | COM | 2 | | | | | | | | | | | | | | | |
| | Parallel | 1 | | | | | | | | | | | | | | | |
| Watchdog Timer | IrDA | 1 | | | | | | | | | | | | | | | |
| | GPIO | 8bit | | | | | | | | | | | | | | | |
| Miscellaneous | Output | System reset | | | | | | | | | | | | | | | |
| | Interval | Programmable 1-255 sec | | | | | | | | | | | | | | | |
| Power Requirement | Audio | Intel® High Definition audio interface (requires audio extension module PCA-AUDIO-HDB1E) | | | | | | | | | | | | | | | |
| | Test Environment | i7-6700, 3.4 GHz, 65 W, with 2 x 8-GB DDR4 2133 | | | | | | | | | | | | | | | |
| | Voltage | +12V | | | | +5V | | | | +3.3V | | | | +5Vsb | | | |
| Environment | Current | 2.64A | | | | 1.23A | | | | 0.19A | | | | 0.09A | | | |
| | Temperature | Operating 0 ~ 60 °C (dependent on CPU and cooler solution) | | | | | | | | | | | | Non-Operating -40 ~ 85 °C | | | |
| | Humidity | 40 °C @ 85% relative humidity (non-condensing) | | | | | | | | | | | | 60 °C @ 95% relative humidity (non-condensing) | | | |
| Physical | Dimensions (L x W) | 338 x 122 mm (13.3 x 4.8") | | | | | | | | | | | | | | | |

Block Diagram



Ordering Information

| Part Number | PCH | Memory | Backplane | LAN | VGA | DP/DVI-D | COM | SATA III | M.2 | USB 2.0 | USB 3.0 | S/W Raid | AMT |
|------------------|------|-------------|----------------------|-----|-----|----------|-----|----------|-----|---------|---------|----------|-----|
| PCE-7129G2-00A1E | C236 | ECC/Non-ECC | PCE-5BXX PCE-7BXX | 2 | Yes | 2* | 2 | 5 | 1 | 7 | 5 | Yes | Yes |

Note: DP/DVI-D cable is optional

Packing List

| Part Number | Description | Quantity |
|---------------|-------------------------------|----------|
| 1700003194 | Serial ATA HDD data cable | x2 |
| 1700022749-11 | Serial ATA HDD power cable | x1 |
| 1701260305 | COM + printer ports cable kit | x1 |
| 1700060202 | Keyboard and mouse Y-cable | x1 |
| 1700002204 | 2-port USB cable kit | x1 |
| 9689000068 | Jumper package | x1 |
| 2190000902 | Warranty card | x1 |
| 2001512910 | Startup manual | x1 |
| 2061512900 | Utility CD | x1 |

Optional Accessories

| Part Number | Description |
|------------------|-------------------------------------|
| 1960052651N021 | 2U CPU cooler (PWM fan) |
| 1960049408N001 | CPU cooler for 1U chassis |
| PCA-AUDIO-HDB1E | Audio module |
| PCA-TPM-00A1E | TPM module |
| PCA-COM232-00A1E | 4-port RS-232 LPC module |
| PCA-COM485-00A1E | 4-port RS-422/485 LPC module |
| 1700020277-01 | 2-port USB 3.0 cable w/ BKT (30 cm) |
| 1700021831-01 | DP to DVI-D cable w/ BKT |
| PCE-DP10-00A1E | DP to DP cable w/ BKT |

I/O View



PCE-7129G2-00A1E