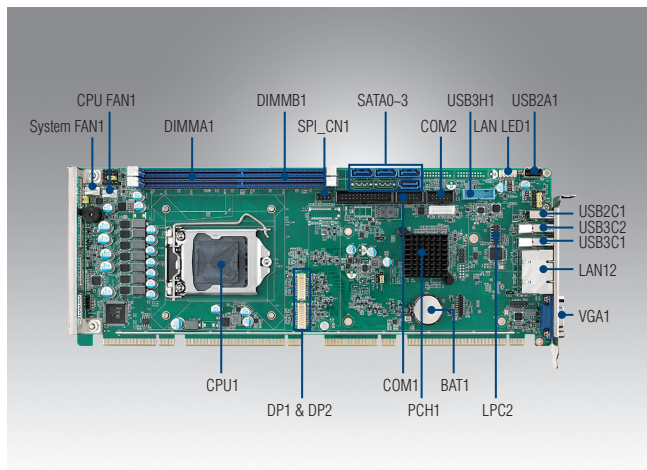


# PCE-5032

## LGA1200 10th Generation Intel® Core™ i9/i7/i5/i3/Pentium/Celeron System Host Board with DDR4, SATA 3.0, USB 3.2, Dual GbE, and Dual Displays



### Features

- Intel® Core™ i9/i7/i5/i3 LGA1200 processor with H420E chipset
- Up to 64 GB of dual-channel (non-ECC) DDR4 2666/2933 MHz
- PCIe 3.0, USB 3.2, and SATA 3.0 slots
- Supports VGA and DVI-D/DP display (with optional cable)
- Supports Advantech's LPC modules, SUSI 4.0, and embedded software APIs

Note: Legacy platform is not supported.

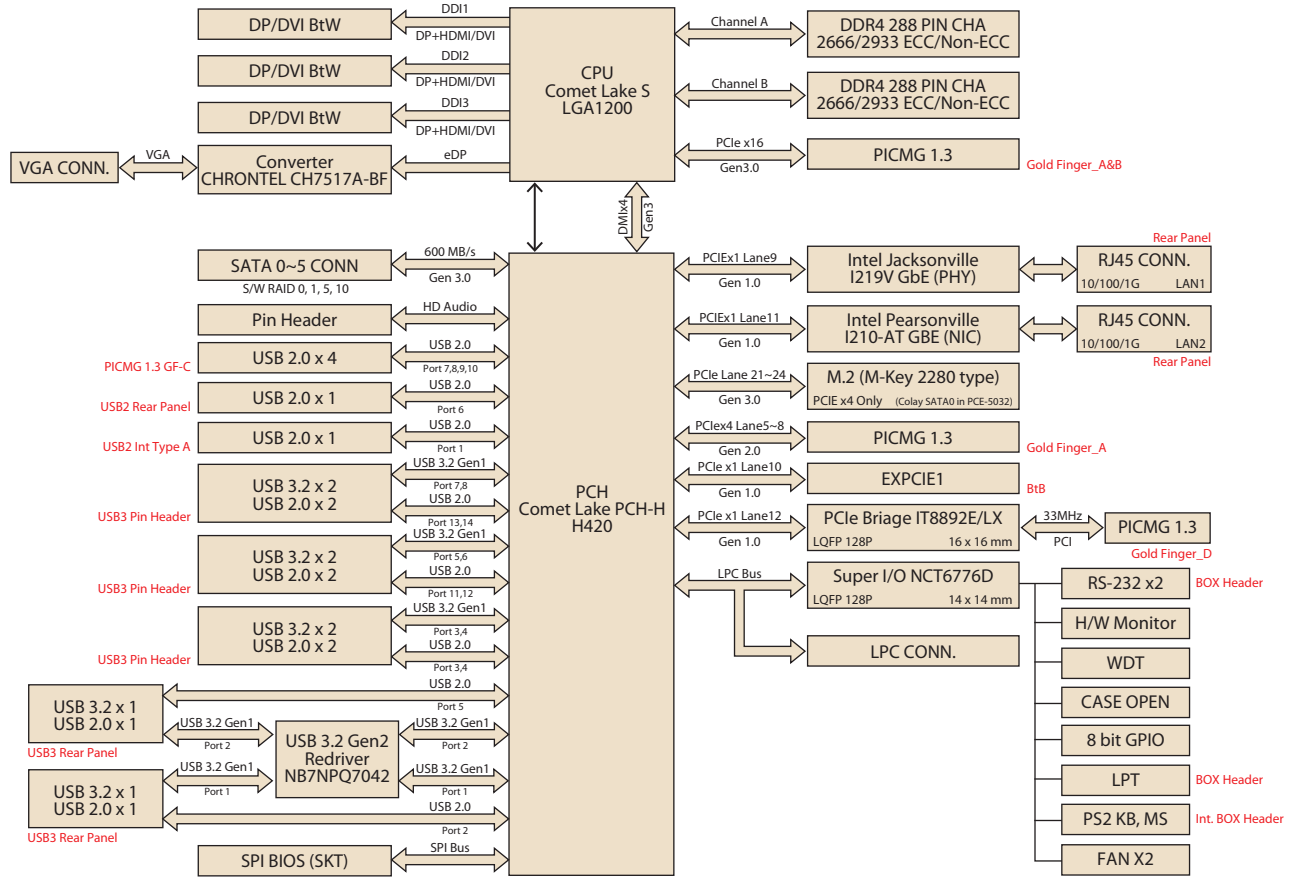
Quiet

CE FCC

### Specifications

|                    |                       |                                                                                          |           |            |            |           |           |           |            |           |                                                |         |         |         |
|--------------------|-----------------------|------------------------------------------------------------------------------------------|-----------|------------|------------|-----------|-----------|-----------|------------|-----------|------------------------------------------------|---------|---------|---------|
| Processor System   | CPU                   | i9-10900K                                                                                | i9-10900E | i9-10900TE | i7-10700TE | i7-10700E | i5-10500E | i5-10500E | i5-10500TE | i3-10100E | i3-10100TE                                     | G6400E  | G5900E  | G5900TE |
|                    | Speed                 | 3.7GHz                                                                                   | 2.80GHz   | 1.80GHz    | 2.00GHz    | 2.90GHz   | 3.10GHz   | 3.10GHz   | 2.30GHz    | 3.60 GHz  | 2.30GHz                                        | 3.80GHz | 3.20GHz | 3.00GHz |
|                    | L3 Cache              | 20MB                                                                                     | 20MB      | 20MB       | 16MB       | 16MB      | 12MB      | 12MB      | 12MB       | 6MB       | 6MB                                            | 4MB     | 2MB     | 2MB     |
|                    | Cores                 | 10                                                                                       | 10        | 10         | 8          | 8         | 6         | 6         | 6          | 4         | 4                                              | 2       | 2       | 2       |
|                    | TDP                   | 125W                                                                                     | 65W       | 35W        | 35W        | 65W       | 65 W      | 65W       | 35W        | 65W       | 35W                                            | 58W     | 58W     | 35W     |
|                    | Socket                | LGA 1200                                                                                 |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | Chipset               | Intel H420E                                                                              |           |            |            |           |           |           |            |           |                                                |         |         |         |
| BIOS               | AMI 128Mbit SPI Flash |                                                                                          |           |            |            |           |           |           |            |           |                                                |         |         |         |
| Bus                | PCI-Express           | 1 x PCIe x16 and 1 x PCIe x4 to backplane                                                |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | PCI                   | 4 x PCI master to backplane, 32-bit, 33 MHz                                              |           |            |            |           |           |           |            |           |                                                |         |         |         |
| Memory             | Technology            | Dual-channel (non-ECC) U-DIMM DDR4 2666/2933 MHz                                         |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | Max. Capacity         | up to 64GB (based on CPU)                                                                |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | Socket                | 2 x DDR4 288-pin DIMM                                                                    |           |            |            |           |           |           |            |           |                                                |         |         |         |
| Graphics           | Controller            | Chipset integrated with Intel® HD Graphics                                               |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | VRAM                  | Shared system memory is subject to OS                                                    |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | VGA                   | Supports resolutions of up to 2048 x 1152 @ 60MHz                                        |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | DVI-D                 | Supports resolutions of up to 1920 x 1200 @ 60MHz                                        |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | Display Port          | Supports resolutions of up to 4096 x 2160 @ 60MHz                                        |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | Dual Display          | CRT+DP/CRT+DVI                                                                           |           |            |            |           |           |           |            |           |                                                |         |         |         |
| Ethernet           | Interface             | 10/100/1000 Mbps                                                                         |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | Controller            | LAN 1: Intel® I219-V<br>LAN 2: Intel® I210-AT                                            |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | Connector with LED    | RJ45 x 2                                                                                 |           |            |            |           |           |           |            |           |                                                |         |         |         |
| Rear I/O           | USB 3.2 (Gen1)        | 2                                                                                        |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | USB 2.0               | 1                                                                                        |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | Ethernet              | 2                                                                                        |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | VGA                   | 1                                                                                        |           |            |            |           |           |           |            |           |                                                |         |         |         |
| Internal Connector | USB                   | 5 x USB 2.0 ( 1 USB Type A + 4 on backplane), 2 x USB 3.2                                |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | SATA                  | 4                                                                                        |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | DP/DVI-D              | 1 (Pin header)                                                                           |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | COM                   | 2                                                                                        |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | GPIO                  | 8 bits                                                                                   |           |            |            |           |           |           |            |           |                                                |         |         |         |
| Watchdog Timer     | Output                | System reset                                                                             |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | Interval              | Programmable 1-255 sec                                                                   |           |            |            |           |           |           |            |           |                                                |         |         |         |
| Miscellaneous      | Audio                 | Intel® High Definition audio interface (requires audio extension module PCA-AUDIO-HDB1E) |           |            |            |           |           |           |            |           |                                                |         |         |         |
| Power Requirement  | Test Environment      | Intel Core i CPU, Memory 2* DDR4 2666U 32GB                                              |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | Voltage               | +3.3V, 5V, 12V                                                                           |           |            |            |           |           |           |            |           |                                                |         |         |         |
|                    | Current               | 1.67A, 6.34A, 9.76A                                                                      |           |            |            |           |           |           |            |           |                                                |         |         |         |
| Environment        |                       | Operating                                                                                |           |            |            |           |           |           |            |           | Non-operating                                  |         |         |         |
|                    | Temperature           | 0 ~ 60 °C (dependent on CPU and cooler solution)                                         |           |            |            |           |           |           |            |           | -40 ~ 85 °C                                    |         |         |         |
|                    | Humidity              | 40 °C @ 85% relative humidity (non-condensing)                                           |           |            |            |           |           |           |            |           | 60 °C @ 95% relative humidity (non-condensing) |         |         |         |
| Physical           | Dimensions (L x H)    | 338 x 122 mm (13.3" x 4.8")                                                              |           |            |            |           |           |           |            |           |                                                |         |         |         |

## Block Diagram



## Ordering Information

| Part Number     | Chipset | Memory  | Backplane | Display       | USB 3.2 | USB 2.0 | COM | GbE LAN | AMT | SATA | SW RAID | Intelligent System Module Support |
|-----------------|---------|---------|-----------|---------------|---------|---------|-----|---------|-----|------|---------|-----------------------------------|
| PCE-5032G2-00A4 | H420E   | Non-ECC | PCE-5BXX  | VGA + DVI/DP* | 4       | 6       | 2   | 2       | No  | 4    | No      | Yes                               |

Note: DP/DVI-D cable is optional

## Packing List

| Part Number | Description               | Quantity |
|-------------|---------------------------|----------|
| 1700003194  | Serial ATA HDD data cable | x2       |
| 1701090401  | 1-port COM cable kit      | x1       |
| 2190000902  | Warranty card             | x1       |
| 2041513201  | Startup manual            | x1       |

## I/O View



PCE-5032G2-00A4

## Optional Accessories

| Part Number      | Description                                   |
|------------------|-----------------------------------------------|
| 1960049408N001   | CPU heat sink for 1U Chassis and 35W TDP      |
| 1960050255N001   | CPU cooler for 2U Chassis and 95W TDP         |
| 1960052651N021   | CPU cooler for 2U/4U Chassis and 80W TDP      |
| 1960067860N001   | CPU cooler for 2U/4U Chassis and 125W TDP     |
| 1700002204       | 2-port USB 2.0 cable kit                      |
| 1700028292-01    | 2-port USB 3.0 cable w/ BKT (30 cm)           |
| 1701090401       | 1-port COM cable kit                          |
| 1701092300       | 2-port COM cable kit                          |
| PCE-DP10-00A1E   | DP to DP cable kit                            |
| 1700021831-01    | DP to DVI-D cable kit                         |
| PCA-TPM-00B1E    | TPM 2.0 module                                |
| PCA-AUDIO-HDB1E  | Audio module                                  |
| PCA-COM232-00A2  | 4-port RS-232 module via LPC interface        |
| PCA-COM485-00A1E | 4-port RS-422/485 module via LPC interface    |
| PCE-SA01-00A1E   | I/O extension kit (DP, USB, Audio, mini PCIe) |
| 20706WX9HS0099   | PCE-5032 win 10 embedded OS (high-end)        |
| 20706WX9VS0103   | PCE-5032 win 10 embedded OS (value)           |
| 20706WX9ES0113   | PCE-5032 win 10 embedded OS (entry)           |

\* for PCE-7132/5132/5032, PCE-SA01-00A1E miniPCIe only support PCIe1 signal

# Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



## AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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### PRŮMYSLOVÉ POČÍTAČE

*fanless embedded PC, do racku, ...*



### POČÍTAČE S DISPLEJEM

*panelové PC, terminály, do vozidel, ...*



### AUTOMATIZACE A SBĚR DAT

*převodníky, karty, moduly, switche, ...*



### PERIFERIE A KOMPONENTY

*monitory, klávesnice, desky, skříně, ...*



### NOTEBOOKY A TABLETY

*odolné, windows, android, IP65, ...*



### INFORMAČNÍ KIOSKY

*interiérové, venkovní, ...*



### MEDICÍNSKÁ TECHNIKA

*počítače, tablety, LCD, klávesnice, ...*



### SOFTWAREVÁ ŘEŠENÍ

*pro výrobu, zaměstnance, kiosky, ...*



### PŘEJÍT DO E-SHOPU

[eshop.autocont-ipc.cz](http://eshop.autocont-ipc.cz)



### DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



### PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



### ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



### SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.