CP62201

6U CompactPCI Express CPU Board based on Intel® 4th Generation Core™ i7/i5

- 4th Generation Intel® Core™ i7/i5 Processors
- Up to 16GB Dual Channel DDR3L ECC Memory onboard
- Dual-Port 10Gb Ethernet Controller onboard
- 1x VGA and 2x DVI Display Outputs, Up to 4K
- PCIe gen3 x16, PCIe gen2 x8, XMC optional
- Air Cooling & Conduction Cooling configurable
Overview

CP62201 is a 6U compactPCI Express board based on Intel 4th generation core i7/i5 processors, up to 4 cores/8 threads, with base frequency at 2.4GHz, and turbo frequency up to 3.4GHz. CP62201 supports up to 16GB onboard soldered low voltage DRAM with ECC, dual channel, up to 1600MHz. CP62201 supports up to 6 SATA storage ports, one of which connects up to 128GB onboard Flash storage. The populated memory and SSD enhance the anti-shock and vibration performance.

CP62201 integrates Intel® HD Graphics 4600 controller, supporting a variety of display outputs, such as eDP, DP, HDMI, DVI and VGA. The output resolution of VGA is up to 2048x1536, while it can be up to “4K” with HDMI, DP or eDP outputs. CP62201 supports one VGA and two DVI, up to three independent or cloned displays.

Technical Information

CPU
- 4th generation Intel® Core™ i7 or i5 Haswell processor
- 4 cores/8 threads at 2.4GHz, turbo frequency 3.4GHz

Memory
- Onboard Dual channel up to 16GB (DDR3L 1333/1600MHz)

Bus
- x16 PCIe 3.0 and x8 PCIe2.0 to RTM
- up to x4 PCIe XMC interface

Ethernet
- Intel® 82580EB 4 ports GbE controllers, 10/100/1000Base-T Ethernet

Graphics
- Intel® HD Graphics 4600
- VGA, support up to 2048x1536
- DP/HDMI/DVI, support up to 4K (3840x2160)

Chipset
- Intel® Lynx Point mobile chipset QM87

Storage
- Up to 64/128GB Onboard SLC/MLC SSD
- Onboard SATA connector

Serial Port
- 2x RS232/RS422/RS485, factory configurable
- 1x USB2.0

OS&BSP
- DOS
- Windows
- Linux
- VxWorks
- QNX

Power Consumption
- 30 ~ 55W

Environment
- Operating Temperature: -40°C to +70°C
- Storage Temperature: -55°C to +85°C (without battery)
- 93% RH at 40°C

MTBF
- >200000h

Front I/O
- 1x VGA (Opt.)
- 2x SFP+ (Opt.)
- 2x USB 3.0/2.0, 1x USB2.0
- 1x GbE (Opt.)
- 1x XMC (Opt.)

Rear I/O
- 4x GbE (1x GbE Opt.)
- 2x 10Gbe (Opt.), support XAUI/CX4/KX4
- 2x RS232/RS422/4S485

CP62201 uses high speed ZD connectors for transferring PCIe3.0 USB3.0 and SATAIII and other high speed interfaces.

In addition, LinkedHope® provides various software driver (BSP) support for CP62201, including VxWorks, Linux, windows, as reduces the workload of the system integration and system solution development, and greatly shorten the Time-to-Market.

CP62201 is designed with full life cycle management, and can be long-term available or even be supplied after its end of life for the specific vertical market that require long-term availability and long-term maintenance services.

Target applications:
- Rail transportation, ship electronics, aerospace & avionics, data processing and embedded computing
- Innovation and Service change our lives!
- 2x USB3.0, 8x USB2.0
- 1x VGA, 2x DP/HDMI/DVI
- 1x PS2 (KB & MS)
- 1x PCIe3.0 x16, 1x PCIe2.0 x8
- 2x SATAIII, 2x SATAII
- 1x AUDIO (MIC & Line_OUT)

### Order Information

<table>
<thead>
<tr>
<th>Product</th>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>CP62201</td>
<td>10-0000-0803</td>
<td>Intel® Core™ i7-4700EQ, 4x2.4GHz, Intel® QM87, on board Memory 8GB, RS232/RS422/RS485 x2, RS232 x1, PCIe x24, 10GbEx2, GbEx4, USB2.0x9, USB3.0x4, SATAIIIx3, SATAIIx2, 64GB on board SSD (SLC), VGA1x1, DP/HDMI/DVIx2, PS2 x1, Audio x1, working temperature: 0°C to +60°C, air cooling</td>
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<td>CP62201</td>
<td>10-0000-0804</td>
<td>Intel® Core™ i7-4700EQ, 4x2.4GHz, Intel® QM87, on board Memory 8GB, RS232/RS422/RS485 x2, RS232 x1, PCIe x24, 10GbEx2, GbEx4, USB2.0x9, USB3.0x4, SATAIIIx3, SATAIIx2, 64GB on board SSD (SLC), VGA1x1, DP/HDMI/DVIx2, PS2 x1, Audio x1, working temperature: -40°C to +70°C, air cooling</td>
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<td>CP62201</td>
<td>10-0000-0863</td>
<td>Intel® Core™ i7-4700EQ, 4x2.4GHz, Intel® QM87, on board Memory 8GB, RS232/RS422/RS485 x2, RS232 x1, PCIe x24, 10GbEx2, GbEx4, USB2.0x9, USB3.0x4, SATAIIIx3, SATAIIx2, 64GB on board SSD (SLC), VGA1x1, DP/HDMI/DVIx2, PS2 x1, Audio x1, working temperature: -40°C to +70°C, conduction cooling</td>
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**More optional configuration:**

- CPU = **i7-4700EQ** (4x2.4GHz), i5-4422E (2x1.8GHz)
- On board Flash = 4GB, 8GB, 16GB, 32GB, **64GB**, 128GB (MLC only)
- Memory = 4GB, **8GB**, 16GB
- Thermal Dissipation = **Air Cooling**, Conduction Cooling

*Please contact LinkedHope® sales rep for more ordering information.*

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