CP67001
CPCI Single Board Computer Based on Phytium FT1500A Processor

Phytium FT1500A/4 CPU, 4 cores, 1.5~2.0GHz, ARM V8 Architecture, 28nm process technology
Up to 16GB DDR3-1600 populated memory
Integrated SM750 Graphic Controller
4x Gigabit Ethernet, 4x SATA 2.0
8x USB 2.0, compatible with USB1.1
Supports XMC
## Overview

CP67001 is a CompactPCI® processor board based on China local-manufactured Phytium FT1500A/4 4 cores ARM processor, with more than 10-year lifecycle. Designed with ARM v8 Architecture, 28nm process technology and fine-grained power optimization technologies, its CPU integrates 4 ARM cores with CPU clock speed up to 2.0 GHz. Combined with the maximum power consumption of 15w, CP67001 is highly applicable for making low-power-consumption solutions.

Equipped with Intel82580, CP67001 supports 4x Gigabit Ethernet; 4x SATA 2.0 and 8x USB 2.0; 1x16 PCI Express for XMC and PMC; SM750 graphic controller with resolution up to 1920x1080p. CP67001, as a single board computer has up to 64GB flash memory, provides outputs including HDMI, DP, DVI and VGA, and provides 2 serial ports with one port supports RS232/RS422/ RS485 configurable through software. In addition, CP67001 supports GPIO and can meet customized demands in different situations.

CP67001 is a processor board with high reliability as well as extended working temperature, and without removable components. These characteristics leave no worries for stability of the product under severe vibration environment, making CP67001 highly suitable for critical application fields.

As CP67001 supports various of BSP, including VxWorks, NeoKylin Linux, Kylin Linux, and other Linux versions, the time pressure of system integration and the workload of product development are lessened, and the product’s time-to-market can be largely shortened.

### Target applications:

Communication, Control, Security, Radar/Sonar

- Innovation and Service change our lives!

---

## Technical Information

### Processor
- Phytium FT1500A/4 SoC, ARM Architecture
- 4 cores, 2.0GHz
- TDP 15W

### Memory
- Up to 16GB DDR3 SDRAM
- Up to DDR3-1600

### Rear I/O
- 1x PCI 32Bit/33MHz (64bit or 66MHz)
- 4x GbE
- 6x USB2.0
- 2x SATA2.0
- 1x VGA, HDMI, DVI

### Front I/O
- 1x VGA with resolution up to 1080P
- 2x USB2.0
- 1x GbE
- 1x RS232
- LEDs, Reset button, On/Off, etc.

OS&BSP
- NeoKylin Linux, Kylin Linux
- VxWorks 6.8/6.9/7.0
- Linux

### Dimension
- 233.35mm x 160mm

### Power Consumption
- 10 ~ 25W

### Environment
- Operating temperature: 0°C to +60°C & -40°C to +70°C
- Storage temperature: -40°C to +85°C
- Humidity: 95% RH at 40°C

### Storage
- 2.5-inch SATA HD
<table>
<thead>
<tr>
<th>Product</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP67001</td>
<td>10-0000-0926</td>
<td>Phytium CPCI Processor Board; Processor: FT1500A/4, 4x2.0GHz, 8MB Cache; Memory: 8GB DDR3 ECC Onboard; Storage: 16GB SSD; Front I/O: VGA<em>1, USB2.0</em>2, 1 RS232<em>1, GbE</em>2, Internet Light<em>3, Reset Button <em>1; Port: 2.5-inch SATA</em>1; Rear I/O: SATA2.0</em>4, PCI<em>1, GbE</em>2, Operating temperature: 0~60°C</td>
</tr>
<tr>
<td>CP67001</td>
<td>10-0000-0927</td>
<td>Phytium CPCI Processor Board; Processor: FT1500A/4, 4x2.0GHz, 8MB Cache; Memory: 8GB DDR3 ECC Onboard; Front I/O: VGA<em>1, USB2.0</em>2, 1 RS232<em>1, GbE</em>2, Internet Light<em>3, Reset Button <em>1; Port: 2.5-inch SATA</em>1; Rear I/O: SATA2.0</em>4, PCI<em>1, GbE</em>2, Operating temperature: -40~70°C</td>
</tr>
</tbody>
</table>

Contact

Address 2nd Floor, Building No.1, Science Park, No.1 Zhonghe Road, Fengtai District, Beijing China
Tel +86 1067777760
Fax +86 1067777750
Hot Line 400 – 087 – 8800
Mail info@LinkedHope.com

www.LinkedHope.com