



Features

- Intel® Pentium® M processor up to 2.0 GHz with 533 MHz FSB
- Four Serial ATA channels
- Eight USB 2.0 ports
- Two Gigabit Ethernet ports
- Four PCI Express x1 lanes
- MiniPCI slot
- RS-232 and isolated RS-485 ports
- Long term availability and support

Overview

CPC1100 – is a full length PICMG 1.0 format processor board for high-performance industrial computers.

The board is based on Intel® Pentium® M processor up to 2.0 GHz, 915GM & ICH6 chipset with dual-channel DDR2 memory interface up to 2 GB.

The board has standard video/audio interfaces and wide range of interfaces for peripheral devices: 8 USB 2.0, 2 RS-232/RS-485 optoisolated, LPT and PS/2.

CPC1100 has two Gigabit Ethernet ports, which make this board highly suitable for network rich infrastructure.

CPC1100 supports storage devices with IDE UltraATA/100 and CompactFlash interfaces, SerialATA (4 channels) and standard FDD.

In addition to PICMG 1.0 parallel 16-bit ISA and 32-bit PCI buses, CPC1100 board supports 4 serial PCI Express x1 channels.

Besides, one MiniPCI expansion module can be installed directly on the board.

Additional reliability of CPC1100 is provided by the hardware monitoring subsystem, watchdog timer and reserved CMOS memory.

The operating temperature of the board is from -10 to +70°C.

Technical Specifications

System

- Intel® Pentium® M processor up to 2.0 GHz with 2 MB L2 cache memory at CPU speed
- 400/533 MHz processor system bus
- Chipset: 915GM GMCH & ICH6
- Up to 2 GB PC4200 DDR2 DRAM through 2 DIMM sockets, dual channel memory interface
- Support for MiniPCI modules of Type IIIA/IIIB
- MTBF: 110 000 hours

BIOS

Phoenix® BIOS with backup copy

- LAN Boot
- USB Boot
- Multi Boot
- Quick Boot
- ACPI 3.0

Graphics

- Video controller integrated in 915GM
- Video memory up to 64MB shared with system
- Analog display interface supports resolution up to 2048x1536 @ 75 Hz

Storage

- IDE Ultra ATA/100 interface for HDD or CD-ROM
- Four channel serial ATA interface
- Compact Flash Type I/II socket

Software support

- Fastwel DOS™ (MS™ DOS compatible)
- Windows 2000, XP®
- QNX® 4.20, 6.0
- Linux® 2.4.0, 2.6.11
- Windows CE
- Windows XP Embedded

Interfaces

- Two PCI-E Gigabit Ethernet ports
- Audio ports, AC'97, Audio codec LM4550
- Eight USB 2.0 ports: two of them are available via USB Type A sockets, and six via IDC headers on board
- Two software-switchable serial ports COM1, COM2: two RS-232 and two RS-485 (isolated) connectors
- Parallel port: Bi-directional SPP standard rate, expanded rate EPP v.1.7 и v.1.9, high-speed rate ECP, IEEE 1284
- FDD interface
- Card edge connectors:
 - 16-bit ISA (PICMG rev. 1.0 compatibility)
 - 32-bit PCI (3.3/5 V, 4 bus master)
 - Four x1 PCI Express (shared with Gigabit Ethernet ports)

Mechanical

- Dimensions: 122x338 mm (4.7" x 13.1")
- Weight: 0.305 kg

Power requirements

- 3.3 V @ 3 A (P1.6, 512 MB RAM)
- 5 V @ 7 A
- 12 V @ 0.12 A

Environmental conditions

- Operating temperature:
 - 10°C to +70°C
- Storage temperature: -55°C to +95°C
- Humidity: 0% to 95%, noncondensing
- Shock/Vibration: 15G/2G

Warranty

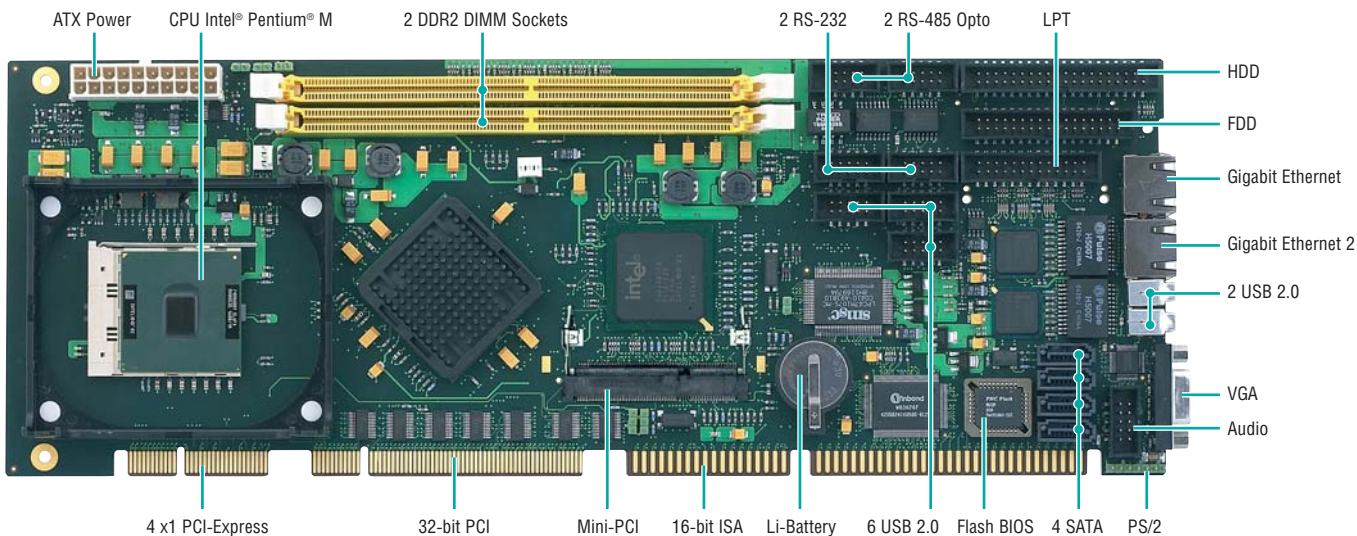
- 3 years for parts and labor

List of deliverables

- CPC1100 module with CPU, heatsink and fan installed
- Cables set
- CD-ROM with documentation and service SW



Board Layout



Ordering Information

CPC1100 Configuration

CPC1100 - 01 - P2.0 \Options

Device Type

CPC1100 PICMG, Pentium® M, Intel® 915GM, DDR2, SVGA, PCI-E, SATA, 2 Gigabit LAN

Processor

P2.0 Pentium M 2.0 GHz, 533 MHz FSB

Options

\xxx Choose available options from the table

CPC1100 Available Options

DIMM Memory Module	
\DIMM512	512 MB DDR2 SDRAM DIMM
\DIMM1024	1024 MB DDR2 SDRAM DIMM
Cooler	
\COOLER	Heatsink and fan installed
Compact Flash Module	
\CF256C	256 MB Compact Flash, commercial
\CF512C	512 MB Compact Flash, commercial
\CF1024C	1024 MB Compact Flash, commercial
\CF2GC	2 G Compact Flash, commercial
\CF4GC	4 G Compact Flash, commercial
\CF8GC	8 G Compact Flash, commercial
\CF16GC	16 G Compact Flash, commercial
Operating System Presetting	
\FDOS	Fastwel DOS
\XPE	Windows XP Embedded
\QNX	QNX 4.20, 6.0
\WCE	Windows CE 5.0
\LNX	Linux 2.4.20, 2.6.11

Other configurations and options are available upon request.

Example

CPC1100-01-P2.0\DIMM512\CF512C\XPE

PICMG, Pentium® M, Intel® 915GM, DDR2, SVGA, PCI-E, SATA, 2 Gigabit Ethernet
 Pentium M 2.0 GHz, 533 MHz FSB
 Heatsink and fan installed
 512 MB DDR2 SDRAM DIMM
 512 MB Compact Flash, commercial
 Windows XP Embedded

Corporate Offices

Fastwel Co. Ltd.

108 Profsoyuznaya str.
 Moscow, Russia 117437
 Tel: +7 (495) 232-1681
 Fax: +7 (495) 232-1654
 E-mail: info@fastwel.com
 Web: www.fastwel.com

Fastwel Inc.

55 Washington Street, Suite 555,
 Brooklyn NY 11201 USA
 Tel: +1 (718) 554-3686
 Fax: +1 (718) 797-0500
 E-mail: info@fastwelcorp.com
 sales@fastwelcorp.com

READY FOR



RoHS



Ver. 0.1 2008

Product specifications are subject to change without notice