



APPLICATIONS

The EMTrust ICP-CP75 is a high-end 3U CompactPCI CPU-Board for versatile requirements in embedded and ruggedized applications

- ▶ Industrial Control and Automation
- ▶ Measurement and Control
- ▶ Medical
- ▶ Automation
- ▶ Infotainment
- ▶ Energy Management
- ▶ Environmental Management
- ▶ Military

ICP-CP75-xx

Intel® Core™ 2 Duo 3U CompactPCI CPU Board



ICP-CP75-XX

FEATURES

- ▶ Up to Intel® Core™ 2 Duo SP9300 (2.26 GHz / 1066 MHz FSB)
- ▶ Up to 8 GB DDR3 1066MHz memory
- ▶ Four independent Gigabit Ethernet controller on 8HP with Rear I/O module
- ▶ Front-panel DVI-I or Analog VGA interface
- ▶ Intel Gen. 5 dual-screen graphics controller
- ▶ PCI Express Mini Card socket with USB2.0
- ▶ Up to 10 USB 2.0 ports
- ▶ Up to 3 Serial ATA channels 3Gbps
- ▶ 4 HP system master with up to 7 PCI bus master or stand-alone
- ▶ 32-bit/33MHz CompactPCI® interface
- ▶ High Versatility through Rear I/O and 8 HP extensions
- ▶ Design, Production and Support "Made in Germany"

BENEFITS

- ▶ Low emission, high immunity
- ▶ Long term availability
- ▶ Optional free of rotating parts
- ▶ Rugged & reliable choice for demanding embedded applications
- ▶ Integration- and application-services, trainings





ICP-CP75-xx

EM Compact

OVERVIEW

The EMTrust ICP-CP75 is powered by the latest Intel® processor technology and the Mobile Intel® GS45 Express Chipset. The perfect fusion of low power consumption and high performance.

SPECIFICATION SUMMARY

- ▶ Flash BIOS with embedded OS
- ▶ One PCI Express™ Mini card socket
- ▶ Four Gigabit Ethernet ports @ 8HP with Rear I/O module
- ▶ SATA Interfacing
- ▶ Dual Independent Display

SPECIFICATIONS

CPU

Intel® Core™ 2 SV - SP9300 - 2.26 GHz
 25W TDPmax - FSB 1066 MHz - 6 MB L2 Cache
 Intel® Core™ 2 LV - SL9400 - 1.86 GHz
 17W TDPmax - FSB 1066 MHz - 6 MB L2 Cache
 Intel® Celeron® M ULV - 723 - 1.2 GHz
 10W TDPmax - FSB 800 MHz - 1 MB L2 Cache

Optional:

Intel® Core™ 2 ULV - SU9300 - 1.2 GHz
 10W TDPmax - FSB 800 MHz - 3 MB L2 Cache
 Intel® Celeron® M ULV - 722 - 1.2 GHz
 5.5 W TDP - FSB 800 MHz - 1 MB L2 Cache

CHIPSET

Mobile Intel® GS45 Express Chipset with Intel® Generation 5 graphics engine with DirectX 10, H.264, WMV9 and MPEG-2 hardware acceleration support.
 ICH9M-E supports Gigabit Ethernet, USB 2.0, SATA 3Gbps, High Definition Audio and SPI Flash support.

SPI FLASH BIOS

- ▶ Award System BIOS from Phoenix
- ▶ Embedded OS (µLinux) for advanced system maintenance and data recovery (optional)

SYSTEM MEMORY

Up to 8 GB DDR3 dual channel with 800 MHz and 1066 MHz support
 Intel Flex Memory Technology
 Both channels provided as SODIMM sockets

SOLID STATE DRIVE

Optional 8 GB SSD on a PCI Express™ Mini Card

GIGABIT ETHERNET

Three independent 10/100/1000Base-T Ethernet controller @ 4HP (one on Rear I/O module)
 Four independent 10/100/1000Base-T Ethernet controller @ 8HP (one on Rear I/O module)

USB 2.0 PORTS

Up to 10 USB 2.0 ports

GRAPHIC INTERFACE

DVI-I: Analog up to QXGA (2048px x 1536px)
 Digital up to UXGA (1600px x 1200px)

FRONT PANEL INTERFACE

4HP version:

- ▶ 2x USB 2.0
- ▶ 2x GbE
- ▶ DVI-I or CRT Sub-D
- ▶ System Status LED (green/red)
- ▶ HDD LED (green)

8HP version (additional to 4HP):

- ▶ 3x USB 2.0
- ▶ 1x GbE
- ▶ 1x COM
- ▶ 1x PS/2

Versatile customized extensions on 8HP are possible

12HP version (additional to 8HP):

- ▶ 1x COM
- ▶ 1x LPT

REAR I/O VIA J2

- ▶ 4x USB 2.0
- ▶ 2x SATA
- ▶ 1x PS/2
- ▶ VGA (shared with front VGA)
- ▶ 2x COM
- ▶ 1x LPT
- ▶ 1x GbE

COMPACTPCI BUS

PICMG 2.0 Rev. 3.0 compatible 32-bit/33 Mhz 3.3V I/O (5V tolerant)

DIMENSION

Approximately (L x W x H)
 4HP: 213 x 129 x 20,32 (mm)
 8HP: 213 x 129 x 40,64 (mm)
 12HP: 213 x 129 x 60,96 (mm)

TEMPERATURE RANGE

Operating: 0°C to +55°C
 Storage: -40°C to +85°C
 Operating temperature depends on processor version and available airflow in the system.

HUMIDITY

Max. rel. humidity of atmosphere non condensing
 Working 80% / Storage 95%