



APPLICATIONS

The EMTrust ICP-CP97 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-CP97-xx

CompactPCI CPU Board
based on 4th and 5th generation Intel® Core™ processors



ICP-CP97-XX

FEATURES

- ▶ Up to Intel® Core™ I7 processors
- ▶ Up to 16 GB DDR3L 1333 or 1600 MHz memory
- ▶ Three independent Gigabit Ethernet controller, two on front and one routed to rear I/O
- ▶ Front-panel DVI-I and analog VGA interface
- ▶ MSATA minicard socket with USB2.0 and Serial-ATA
- ▶ Two front-panel USB 3.0 ports
- ▶ Up to 4 Serial-ATA channels
- ▶ 4 HP system master with up to 7 PCI bus master or stand-alone
- ▶ 32 bit/33 MHz CompactPCI® interface

BENEFITS

- ▶ Low emission, high immunity
- ▶ Long term availability
- ▶ Optional free of rotating parts
- ▶ Rugged & reliable choice for demanding embedded applications
- ▶ Integration-, application- and training-services available
- ▶ High versatility through rear I/O 'E' interface and 8 HP daughter-board extension
- ▶ Design, production and support "Made in Germany"





ICP-CP97-xx

EM Compact

OVERVIEW

The EMTrust ICP-CP97 is powered by the latest Intel® processor technology and based on Intel's Haswell/Broadwell ULT Platform. The perfect fusion of low power consumption and high performance.

SPECIFICATION SUMMARY

- ▶ One PCI Express Mini Card socket
- ▶ Up to three independent Gigabit Ethernet ports
- ▶ SATA interfacing
- ▶ Three independent displays

SPECIFICATIONS

CPU SOC

Intel® Core™ i7 (U) - 3.30 GHz | 15W TDPmax | 4 MB L3 Cache | Intel® HD Graphics 5000
 Intel® Core™ i5 (U) - 2.90 GHz | 15W TDPmax | 3 MB L3 Cache | Intel® HD Graphics 4400
 Intel® Celeron® (U) - 1.60 GHz | 15W TDPmax | 2 MB L3 Cache | Intel® HD Graphics
 Other 4th and 5th generation Intel® Core™ processors on request

BIOS

UEFI BIOS

SYSTEM MEMORY

Up to 16 GB DDR3L SDRAM dual channel with 1333 or 1600 MHz (two SO-DIMM sockets)

MASS STORAGE SUPPORT

One channel on mSATA Mini Card socket
 One channel on 8HP 2,5" HDD carrier (optional)

GBIT ETHERNET

Three independent 10/100/1000 MBit Ethernet controller @ 4HP
 Two on front (i218 PHY and i211 MAC/PHY) @ 4HP
 One available at rear I/O (i211 MAC/PHY) (opt.)

USB HOST PORT

Two USB 3.0 ports at front-panel @ 4HP
 One USB 2.0 at rear I/O (optional)
 Three USB 2.0 ports at front-panel @ 8HP (opt.)

GRAPHIC INTERFACE

Front-Panel DVI-I interface with analog VGA
 Optional analog VGA with DDC support on rear I/O (shared with front panel VGA)

FRONT PANEL INTERFACE

4HP version:
 2x USB 3.0 | 2x GbE | DVI-I and VGA
 System Status LED (green/red)
 HDD LED (green)

Optional 8HP version (additional to 4 HP):
 3x USB 2.0 | 1x GbE | 1x COM | 1x PS/2
 Versatile customized extensions on 8HP are optional available

REAR I/O AT J2

Optional Rear I/O "E" interface
 1x USB 2.0 | 1x GbE | 2x SATA | 1x PCIe
 1x VGA (shared with front VGA)

COMPACTPCI BUS

PICMG 2.0 R3.0, R2.1
 Universal (3.3V/5V) PCI VI/O optional
 Support for 7 PCI REQ/GNT pairs (8 slot cPCI BP)
 Supports PCI Rev 2.3 Specification at 33 Mhz
 Basic Hot Swap

OS SUPPORT

Microsoft Windows® 7 Professional
 Microsoft Windows® 10 Professional
 Others on request

COOLING

4HP version: passive cooled (additional system air flow required)
 8HP version: active cooled

DIMENSION

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

Maximum relative humidity of atmosphere
 Working 80% / Storage 95%, non condensing