



## APPLICATIONS

The EM Compact ICP-CP14 is a 3U CompactPCI CPU-Board for versatile requirements in embedded and ruggedized applications

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

# ICP-CP14-xx

## Intel® Atom™ 3U CompactPCI CPU Board



## ICP-CP14-XX

### FEATURES

- ▶ Powered by proven Intel® technology ▶ Supporting Intel® Atom™ processors and chipsets for commercial or industrial temperature grade
- ▶ Supports up to 2GB DDR2 Memory
- ▶ Front-panel Analog VGA or optional STANAG 3350 B/C
- ▶ High Speed Communication via optional Rear I/O
- ▶ Up to 4 USB 2.0 ports
- ▶ Industrial flash disk up to 2x 8GB
- ▶ 4 HP system master with up to 7 PCI bus master or stand-alone
- ▶ 32-bit/33MHz CompactPCI® interface
- ▶ 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, training





# ICP-CP14-xx

EM Compact

## OVERVIEW

The EM Compact ICP-CP14 is powered by proven technology, including Intel® Atom™ Processors up to 1,6 GHz. The perfect fusion of low power consumption and high performance.

## SPECIFICATION SUMMARY

- ▶ Fanless operation
- ▶ Flash Disk on-board
- ▶ Extended Temperature Option

## SPECIFICATIONS

### CPU

**Commercial temperature version:**  
Intel® Atom™ processor Z510P  
1.1 GHz - 2,2W TDPmax  
512 KB cache

Intel® Atom™ processor Z530P  
1.6 GHz - 2,2W TDPmax  
512 KB cache

**Industrial temperature version:**  
Intel® Atom™ processor Z510PT  
1.1 GHz - 2,2W TDPmax  
512 KB cache

Intel® Atom™ processor Z520PT  
1.33 GHz - 2,2W TDPmax  
512 KB cache

### CHIPSET

**Commercial temperature version:**  
Intel® System Controller Hub  
US15WP

**Industrial temperature version:**  
Intel® System Controller Hub  
US15WPT

### MAX. MEMORY

1GB DDR2 RAM soldered  
or  
2GB DDR2 RAM soldered  
Depends on version

### BIOS

UEFI-BIOS

### 1 GBIT ETHERNET

Up to two independent  
10/100/1000Base-T Ethernet  
controller (one on optional Rear  
I/O module)

### USB HOST PORTS

3x USB 2.0 Host Ports Type A

### INDUSTRIAL FLASH DISK

Up to two independent flash  
disks up to 8GB each:  
4GB industrial or standard flash  
disk (Default)  
Others upon request

### GRAPHIC INTERFACE

Analog VGA or  
optional STANAG 3350 B/C on  
DSUB-15  
Full HD resolution compatible  
up to 1920 x 1200 px on VGA  
output

### FRONT PANEL INTERFACE

- ▶ 3x USB 2.0
- ▶ 1x GbE
- ▶ Analog VGA or  
optional STANAG 3350 B/C
- ▶ System Status LED  
(green/red)
- ▶ HDD LED  
(green)

### REAR I/O

Optional Rear I/O interface:  
▶ 1x USB 2.0  
▶ 1x GbE  
▶ One PCIe X1  
▶ LPC-Bus  
▶ SM-Bus  
Optional Analog VGA on Rear  
I/O interface instead front  
panel VGA.

### USB NAND SOCKET

Socket for USB NAND Drives

### FANLESS

Designed for fanless operation

### OS SUPPORT

Linux  
Microsoft Windows® XP  
Microsoft Windows® XP  
Embedded  
Microsoft Windows® Embedded  
Standard 7

### MONITORING

Hardware Monitoring and  
Watchdog

### DIMENSION

Approximately (L x W x H)  
213 x 129 x 20,32 (mm)

### TEMPERATURE RANGE

**Commercial temperature version:**  
FANLESS Operation:  
0°C to +60°C ambient  
Storage:  
-40°C to +85°C ambient

**Industrial temperature version:**  
FANLESS Operation:  
-40°C to +85°C ambient  
Storage:  
-40°C to +100°C ambient

### HUMIDITY

Max. rel. humidity of atmos-  
phere non condensing  
Working up to 85%  
Storage up to 95%

## STANDARD VARIANTS

PRODUCT	DESCRIPTION
Low-cost, full performance, commercial temp.	Processor Z530P, Chipset US15WP, 2GB DDR2 RAM, 4GB SLC flash disk, front-panel VGA, Rear I/O interface.
Fully industrial	Processor Z520PT, Chipset US15WPT, 2GB DDR2 RAM, two 4GB SLC flash disks, soldered RTC battery.
Entry level, commercial temp.	Processor Z510P, Chipset US15WP, 1GB DDR2 RAM, 4GB SLC flash disk.



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