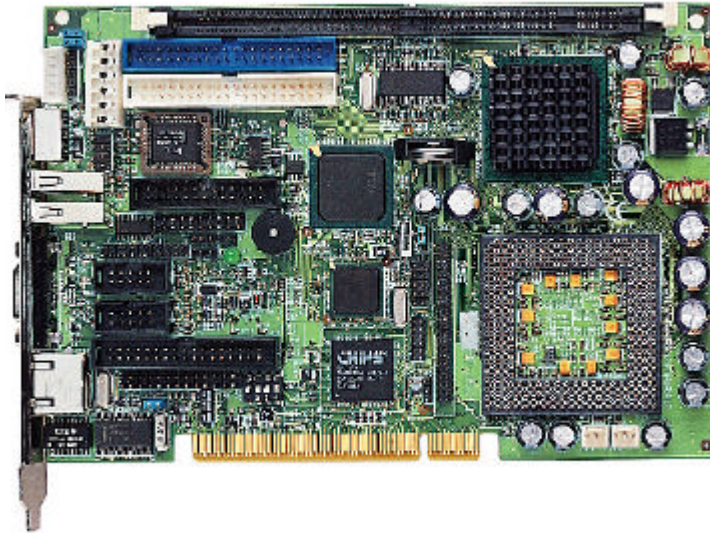# CI7SP Technical Data

This CI7SP is one of the world's highest performance Half-size CPU cards. It integrates the Intel 815EP chipset and supports a Socket 370 connector for Intel Pentium III or Celeron processors with frequencies of up to 1GHz. It also provides Dual LAN function to take effect efficiently.

- **Intel Pentium III/Celeron processor with 256/128 KB L2 Cache**
- **Up to 512 MB of 66/100/133 MHz unbuffered SDRAM in one 168-pin DIMM**
- **PCI Ultra DMA 33/66/100 IDE Support**
- **Internal graphics in C&T69030 chip Built-in CRT/TFT LCD (36bit)/LVDS (24bits) VGA support**
- **AC'97 CODEC Support**
- **Dual LAN Support: Intel 82562ET/ Intel 82559**

High performance
half-Sized SBC

The CI7SP half-size SBC features a 64-bit Intel Pentium III/Celeron processor with on-die 256/128 KB L2 pipelined burst cache (full CPU core speed).

It supports up to 512 MB memory, high performance PCI Ultra DMA33/66/100 IDE and CompactFlash™.

The IPC card use C&T 69030 Chipset, which offers CRT&LCD display simultaneously.

Onboard support four Universal Serial Bus (USB) ports, serial/parallel ports, and a floppy interface are standard. This Dual LAN half-sized SBC also comes with the function of ICH2+ Intel 82559+ AC97 CODEC to take effect efficiently.

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CI7SP Technical Data

kontron
EMBEDDED COMPUTERS

CPU
Intel ® Pentium III/Celeron processor
500MHz~1GHz with 256/128 KB L2 Cache in
FCPGA370 Package and higher becomes
available

Chipset
Intel 815EP Chipset and ICH2

Bus Interface
Front Side Bus (66/100/133 MHz);
Onboard VGA support PCI interface

Memory
One 168-pin latching DIMM socket, 64-bit
Up to 512 MB with 2, 4, 8, 16 or 32M x 64,
66/100/133 MHz SDRAM / Registered SDRAM
none ECC mode

Data Path
Data Path 64-bit on CPU and video memory bus;
32-bit on PCI bus

Flash Memory
4KB Serial EEPROM for user configuration I/O

I/O Port
I/O: Winbond 83627HF low pin count
USB Ports: Four (Ver 1.1)
Serial Ports: Two 16550 UART compatible ports
with COM1/COM2 as RS232
Parallel Port: One high-speed parallel port,
SPP/EPP/ECP mode
Floppy Disk: Support for two floppy drives
EIDE: 4 EIDE drivers, support PIO Mode 4
or Ultra DMA 33/66/100
Audio: AC97 CODEC Support
Ethernet: ICH2+82562ETand Intel 82559
10/ 100 Mbit/sec Ethernet support
Compact Flash support

VGA Display
Accelerated Graphics Port 64-bit CRT/ Flat Panel
controller runs in internal graphics mode with C&T
69030 Chipset. TFT/CRT panels drive with
resolution up to 1280x1024x8 pixels.

Clock/Calendar
Real-time clock with 256 byte battery backup
CMOS RAM

BIOS
Award BIOS in Boot Block Flash with recovery
code; save CMOS in Flash option, and boot from
LAN capability;
Auto configuration, extended setup;
CC00-E000 address blocking; PnP tables;
Diskless, keyboardless and videoless operation
extensions;
System, Video and LAN BIOS shadowing;
Programmable memory waits states;
Advanced Configuration and Power Interface
(APM 1.2), advanced thermal management
(resume, overheat alarm and auto slow down),
and Green support;

Supervisory
Watchdog timer (0~254.5 Sec/Min. typ.)
Power failure/low battery detector

OS Compatibility
PC and MS-DOS™, Windows® 95;
Windows® 98 series; Windows® 2000;
Windows® Me; Windows® NT 4.0
and Linux

Power Requirements
Supply Voltage Vcc = +5V ±12V

Environmental:
Temperature: 0° to 60°C
Humidity (RNC): 5% to 95%
Vore: 1.25V~3.5V
Storage Temperature: -25~+65 deg. C.

Mechanical:
185mm x 126mm

Reliability
Mouse / keyboard voltage protected by self-
resetting fuses
6 hours 45°C dynamic burn-in
24 months limited warranty

EMI:
CE Certified
FCC Certified
FCC Class A

Headquarters

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