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Printable Version

F7 - 3U CompactPCI Pentium III Workstation

Equipped with a Celeron™ or Pentium III processor, the F7 is a powerful 3U CPU board based on Socket 370, well suited for any CompactPCI system.

The board is provided with the 810 chip set, which contains an embedded graphics controller. The DVI interface allows for attachment of both advanced and legacy flat-panel displays and CRT monitors. The onboard USB port is a universal interface to a variety of peripheral devices (such as keyboard, mouse, printer, modem, or video camera). For high-speed networking, the F7 features a 10/100Mbit/s Fast Ethernet interface. All connections mentioned above are conveniently available at the card's front panel.

For mass storage, the F7 provides an Ultra ATA 66 connector, suitable for any EIDE hard disk and CD-ROM drive. An onboard CompactFlash slot allows use of silicon disks. The jumperless board can be used with a front-side bus clock of up to 133MHz.

Equipped with a PCI-bridge chip, the F7 offers a full CompactPCI interface for reliable system expansion. Last but not least, the F7's General Software BIOS was especially designed for embedded system applications.

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Technical Data

CompactPCI Bus

- 3U CompactPCI CPU board rev. 3.0 compliant
- 32-bit CompactPCI system slot functionality with 7 possible external loads due to PCI-to-PCI bridge
- PCI-to-PCI bridge
- single-slot solution
- V(I/O): +5V (+3.3V optional)

CPU

- Celeron or Pentium III
- up to 133MHz host frequency
- socket 370

Graphics

- integrated VGA graphics controller and TFT support
  - connection at front panel

Memory

- 32..256MB DRAM
  - one 144-pin SO-DIMM socket for 1Mx64 to 32Mx64 synchronous DRAM modules
  - 100MHz memory bus frequency
- CompactFlash™ interface (Type I)

Interfaces

- full-duplex 10/100Mbit/s PCI Ethernet controller
  - 82559 controller
  - 10/100Base-T RJ45 interface at front panel
- USB (Universal Serial Bus) interface

    - conforming to Open HCI 1.0a
    - at front panel
    - data throughput up to 12Mbit/s

PXI

- two trigger lines compliant with PXI Spec. R1.0

Mass Storage

- fast IDE ports
    - one IDE hard-disk/CD-ROM port via ribbon cable connector Ultra ATA 66
    - one IDE port for local CompactFlash

I/O Extension

- 8HP I/O extension board for standard interfaces at front panel
    - COM1/COM2 serial (9-pin D-Sub)
    - keyboard/mouse (PS/2)
    - LPT parallel (25-pin D-Sub)
- additional onboard connections
- Ultra ATA/66 via 44-pin connector
- floppy disk connection via 34-pin connector
- connection to F7 via 40-pin IDE and 26-pin LPC connectors
- options: fan, MIDI/gameport, rear I/O via CompactPCI J2

Miscellaneous

- battery-backed real-time clock
- integrated hardware monitor
- reset button at front panel

Electrical Specifications

- supply voltage/power consumption:
    - +5V: 4.85V..5.25V @ 6A max.
    - +3.3V: 3.2V..3.4V @ 3.5A max.
    - +12V: 11.5V..12.5V @ 0.5A max.
- MTBF: tbd. @ 50°C

Mechanical Specifications

- dimensions: conforming to CompactPCI specification for 3U boards
- weight:
    - F7: 230g
    - I/O extension board: 212g

Environmental Specifications

- temperature range (operation): 0..+45°C, 0..+60°C or -40..+85°C (depending on processor) @ 10m3/h airflow
- temperature range (storage): -40..+85°C
- relative humidity (operation): max. 95% non-condensing
- relative humidity (storage): max. 95% non-condensing
- altitude: -300m to + 3,000m
- shock: 15g/0.33ms, 6g/6ms
- vibration: 1g/5..2,000Hz

Safety

- PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers

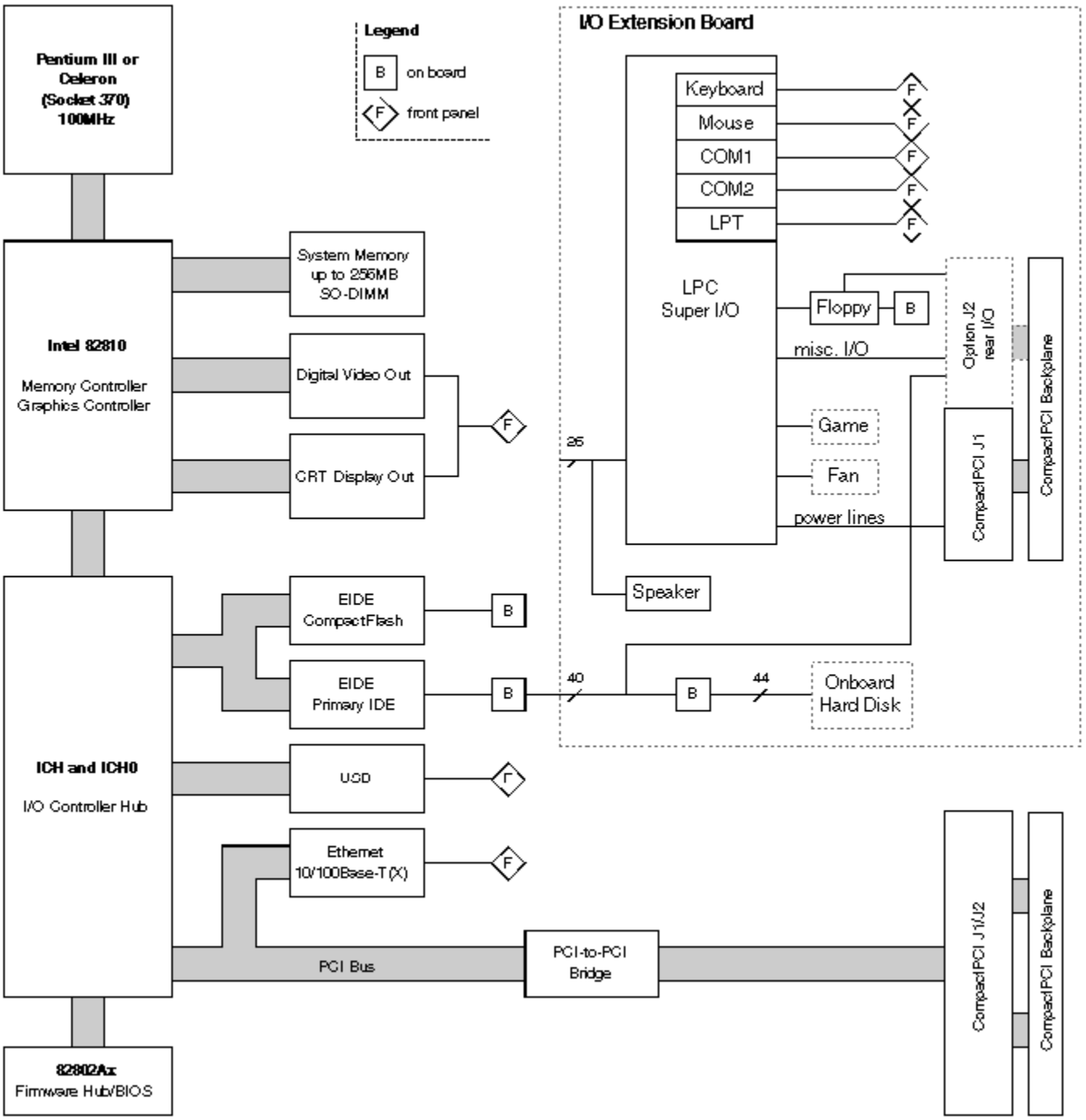
EMC

- tested according to IEC1000-4-2 (ESD) and IEC1000-4-4 (burst) with regard to CE conformity

Software Support

- BIOS for industrial applications
- WindowsNT
- VxWorks

Block Diagram



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Ordering Information

Standard Hardware

02F007-00	F7, CompactPCI 3U, single board computer, Celeron 600MHz incl. heat sink, 0MB DRAM, 100Mbit Ethernet, DVI graphics, 0..+60°C
02F007-01	F7, CompactPCI 3U, single board computer, Celeron 600MHz incl. heat sink, 64MB DRAM, 100Mbit Ethernet, DVI graphics, -40..+85°C
02F007-02	F7, CompactPCI 3U, single board computer, Pentium III 850MHz, 0MB DRAM, 100Mbit Ethernet, DVI graphics, 0..+45°C

Accessories

02F007E00	I/O extension for F7, keyboard, mouse, serial, parallel, floppy, 3U/8HP (F7 system slot right), 0..+60°C
02F007E01	I/O extension for F7, keyboard, mouse, serial, parallel, floppy, 3U/8HP (F7 system slot right), -40..+85°C
02F007E02	I/O extension for F7, keyboard/mouse, 2x serial, floppy, 3U/4HP (F7 system slot right), 0..+60°C
02F007E03	I/O extension for F7, keyboard/mouse, 2x serial, floppy, 3U/4HP (F7 system slot right), -40..+85°C
05A000-10	keyboard/mouse Y-cable, 6-pin mini DIN plug to two 6-pin mini DIN receptacles (0.1m)
05F007-02	DVI-to-VGA cable, DVI plug to 15-pin HD-Sub plug, 2m, -40..+85°C
05F007-03	adapter, DVI analog plug to VGA 15-pin HD-Sub receptacle, -20..+85°C
0751-0001	CompactFlash 32MB ATA/true IDE
0752-0007	64MB SDRAM SO-DIMM
0752-0008	128MB SDRAM SO-DIMM
0752-0013	SO-DIMM, 144-pin SDRAM, 256MB, 133MHz, 3.3V, 26.67mm (1.05") max.

Basic System

0701-0009	CompactPCI 19" 3U rack-mount enclosure, 3U 7-slot CompactPCI backplane, ATX power supply

EIDE, floppy and CD-ROM drives are delivered as requested.
Different rack sizes, power supplies and backplanes (3U/6U, J1..J5) on request.

Standard Software

10ABMX-08	Microsoft Windows NT 4.0: workstation license, German OEM version, CD-ROM and manual
10ABMX-09	Microsoft Windows NT 4.0: workstation license, English OEM version, CD-ROM and manual

User Manuals

20F007-00	F7 user manual download

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