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An0069

Differences between
the CPU-1232 and CPU-1233

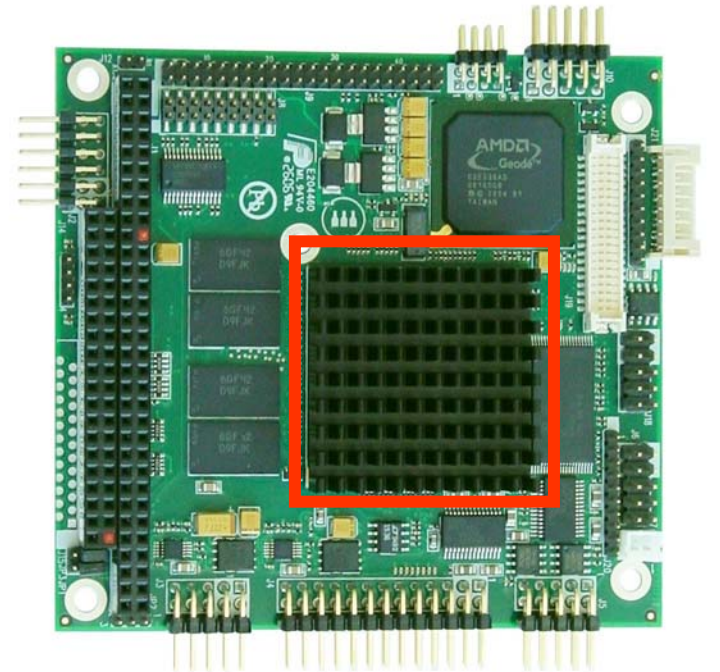**Rev. 1.0**   **Nov. 2006**

CPU-1233 Features

Primary Features

Processor

- **AMD Geode GX2**
- **333MHz**

Differences
CPU-1232 had an AMD Geode GX1 @ 266MHz

CPU-1233 Features

Primary Features

Processor

- **AMD Geode GX2**
- **333MHz**

Companion Chipset
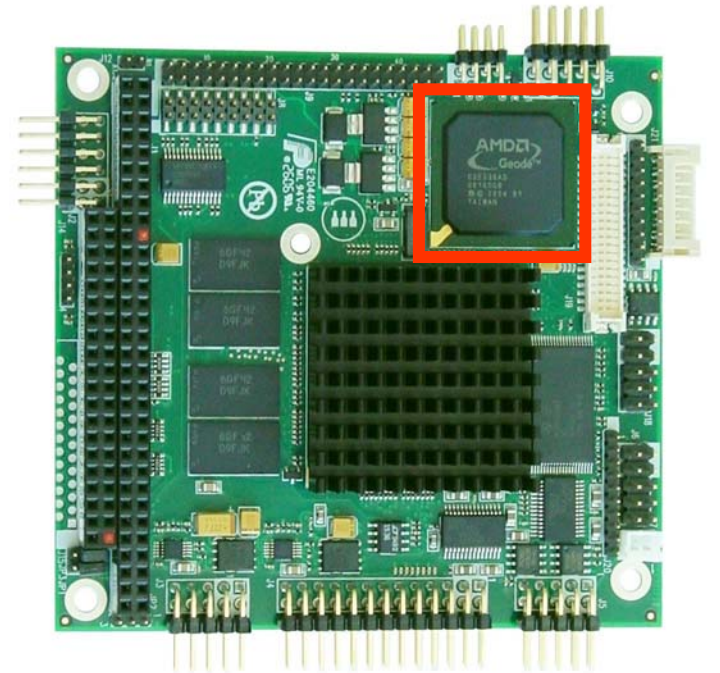
- **AMD CS5536AD**

Differences
CPU-1232 had an AMD CS5530A

CPU-1233 Features

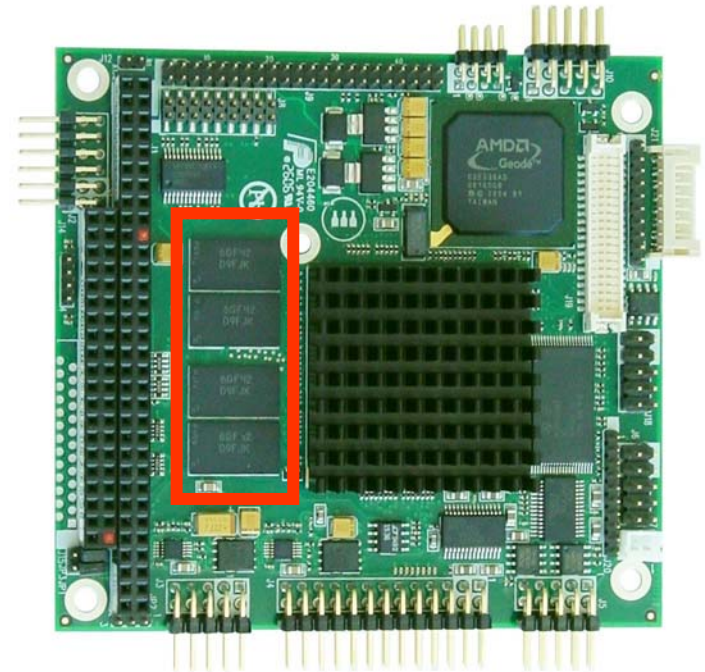## Primary Features

Processor

- AMD Geode GX2
- 333MHz

Companion Chipset

- AMD CS5536AD

Memory

- **128MB DDR SDRAM as standard**
- **Soldered Onboard**

Differences
CPU-1232 was 128MB SDRAM, not DDR.

CPU-1233 Features

Primary Features

Processor
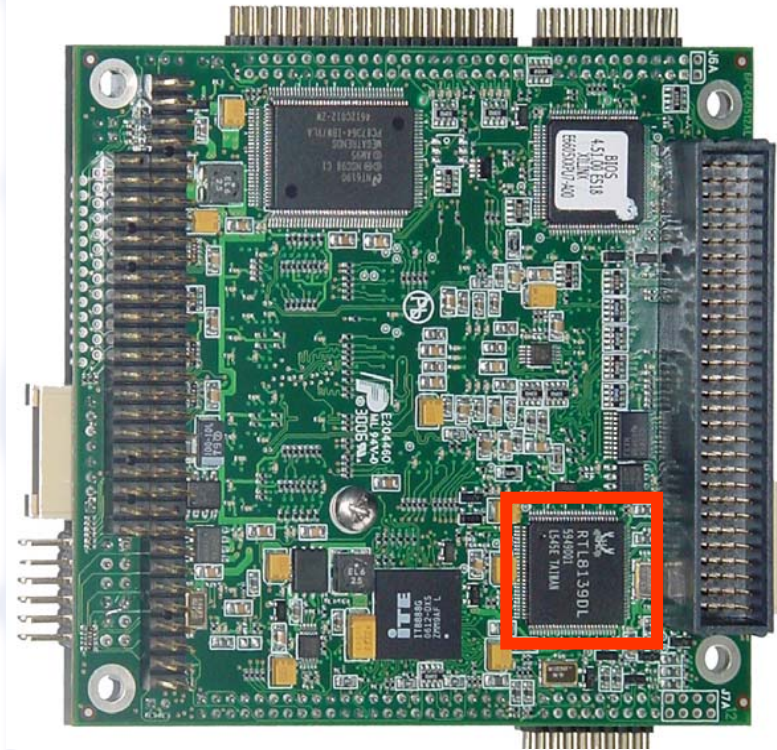
- AMD Geode GX2
- 333MHz

Companion Chipset

- AMD CS5536AD

Memory

- 128MB SDRAM
- Soldered Onboard

Ethernet

- Realtek 8139DL
- 10/100Mbps

Differences
CPU-1232 had a Realtek 8139C
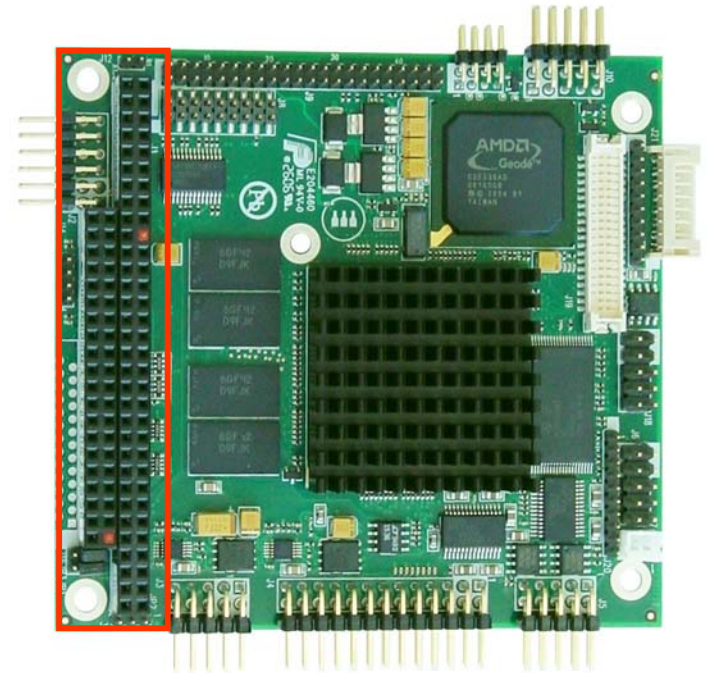
CPU-1233 Connectivity

Standard Connectors

ISA Bus

- Fully PC104 Compliant
- Specification IEEE P996

Connector

- J1 & J2
- J1 - 32 x 2 pins
- J2 - 20 x 2 pins
- 2.54mm pitch

Differences
No Change

CPU-1233 Connectivity
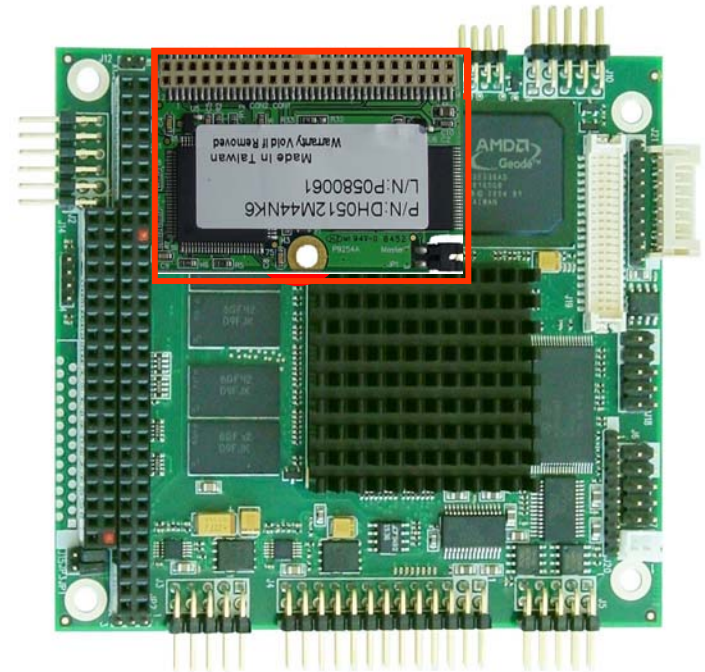
Standard Connectors

IDE Interface

- **ATA-6 Compliant**

Connector

- **J9**

- **22 x 2 pins**

- **2.00mm pitch**

Other

- **Mounting point for Securing a Disc-On-Module**

Differences
CPU-1233 has no Disk-On-Chip socket available
CPU-1232 has No securing place for Disk-On-Module.
CPU-1232 had a 90 degree connector
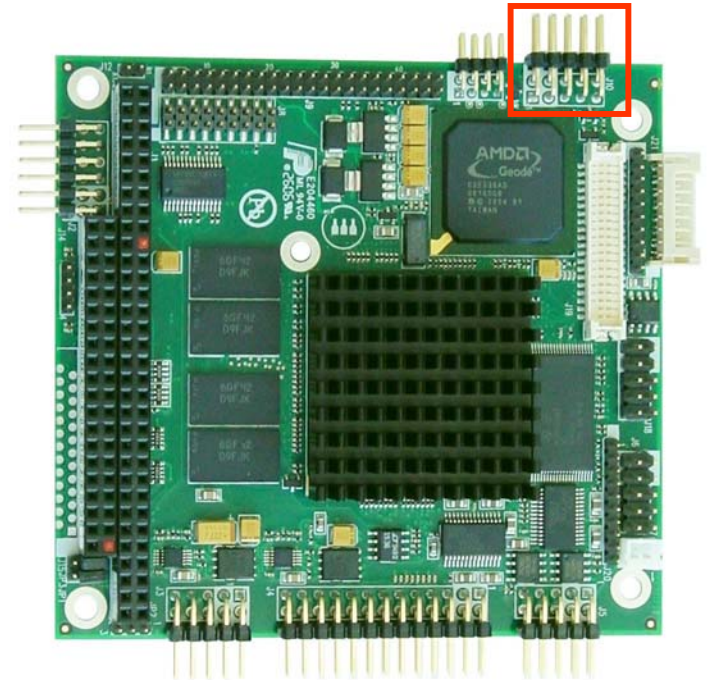CPU-1232 was only ATA-4 Compliant

CPU-1233 Connectivity

Standard Connectors

Multifunction

- **VGA**

Connector

- **J10**
- **5 x 2 pins**
- **2.54mm pitch**

Differences
No Change
CPU-1233 cannot use VGA and TFT simultainiously
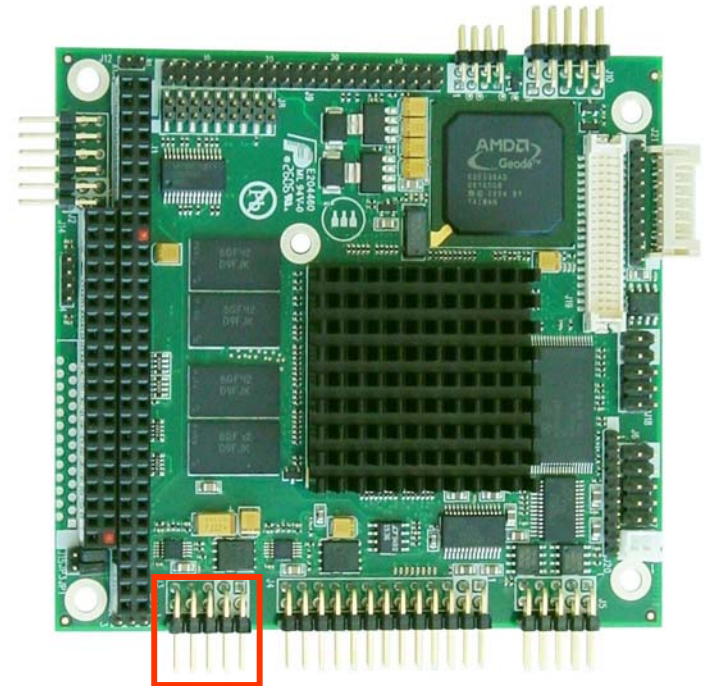
CPU-1233 Connectivity

Standard Connectors

Multifunction

- Keyboard
- Battery
- Speaker
- Reset

Connector

- J3
- 5 x 2 pins
- 2.54mm pitch

Differences
CPU-1233 does not have the External Power button connected

CPU-1233 Connectivity
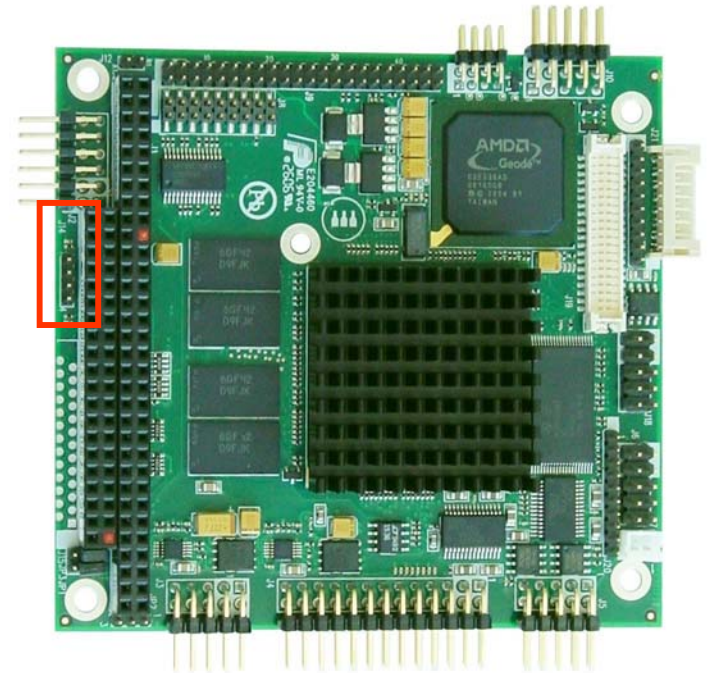
Standard Connectors

Multifunction

- **Mouse**

Connector

- **J14**

- **4 x 1 pins**

- **2.00mm pitch**

Differences
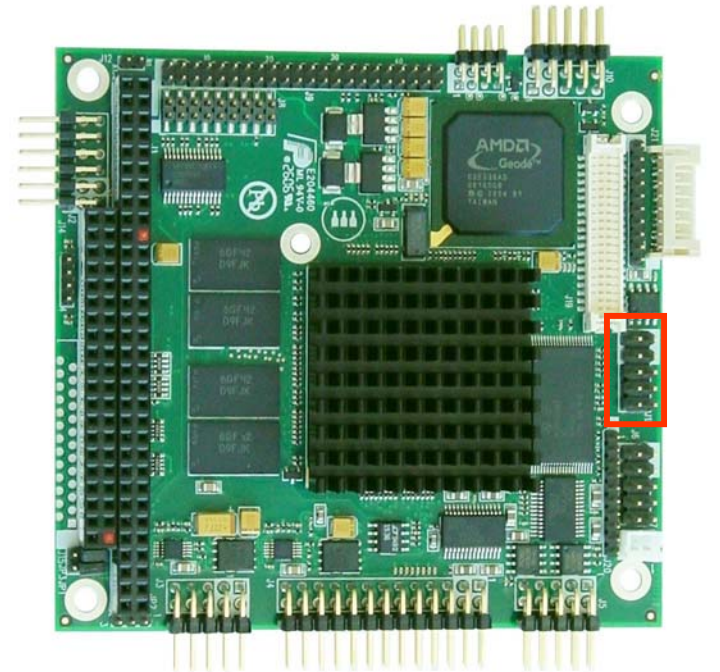**No Change**

CPU-1233 Connectivity

Standard Connectors

Ethernet

- Realtek 8139D chipset
- 10/100Mbps

Connector

- J18
- 5 x 2 Pins
- 2.54mm pitch

Differences
CPU-1232 had Realtek 8139C
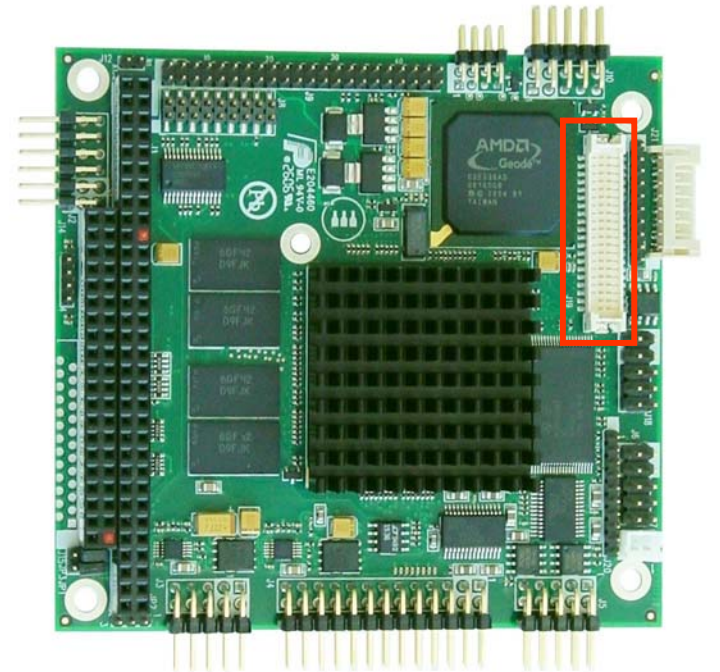**CPU-1233 does not have LED2 connected**

CPU-1233 Connectivity

Standard Connectors

LCD /TFT

- LCD
- TFT

Connector

- J19
- 20 x 2 pins
- 1.25mm pitch

Differences
CPU-1233 has "Blue" and "Red" pins inverted
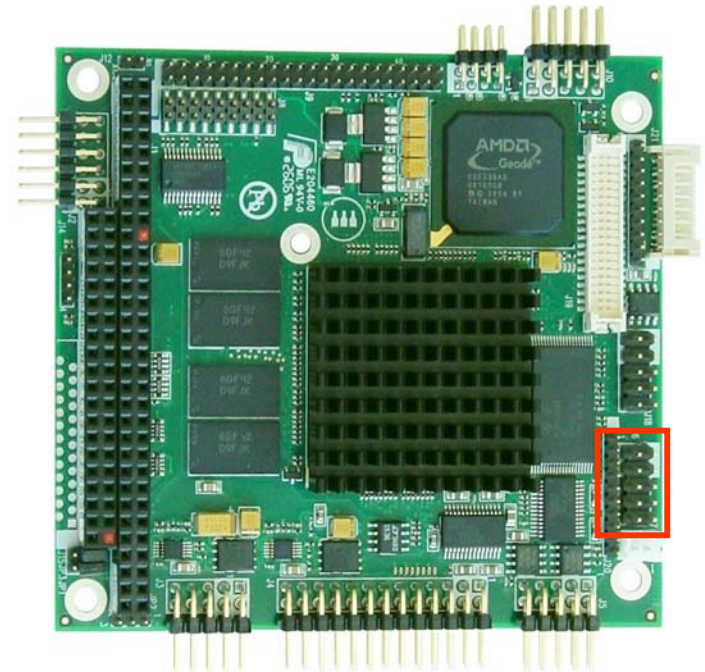CPU-1233 cannot use VGA and TFT simultainiously

Standard Connectors

Serial

- Serial port 2: RS232 only

- 16550A & 16450 compatible

- UART data rates up to 1.5 Mbaud

Connector
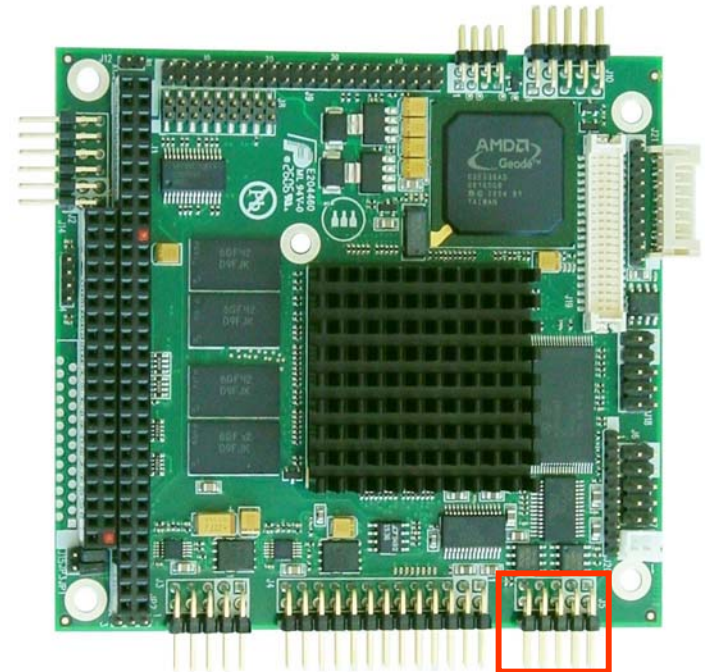
- J6
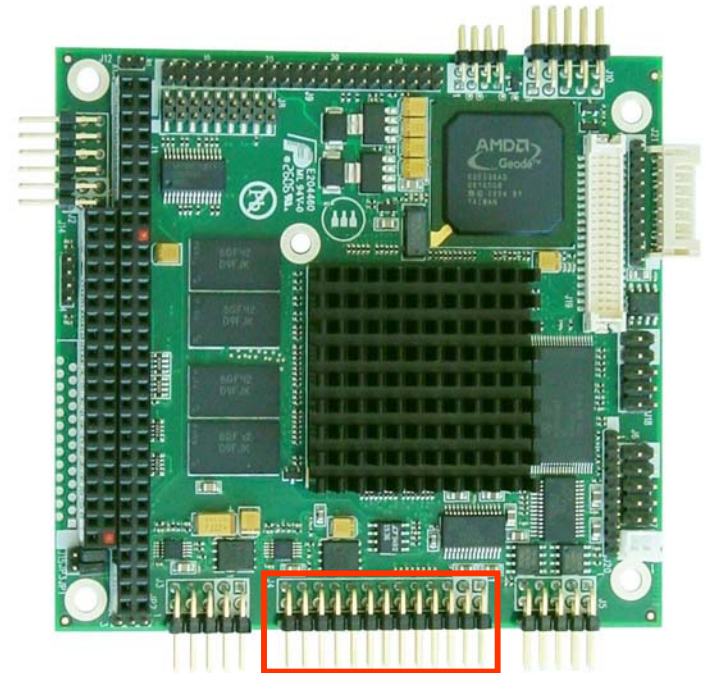
- 5 x 2 pins

- 2.54mm pitch

Differences
No changes

Standard Connectors

Serial

- • **Serial port 1: RS232, RS422 or RS485**
- • **16550A & 16450 compatible**
- • **UART data rates up to 1.5 Mbaud**

Connector

- • **J5**
- • **5 x 2 pins**
- • **2.54mm pitch**

Differences
No changes

Standard Connectors

Parallel

- **Enhanced Parallel Port**
- **EPP1.9 and IEEE1284 compliant**

Connector

- **J4**
- **13 x 2 pins**
- **2.54mm pitch**

Differences
CPU-1233 has no floppy disc on Parallel port (Now available on USB).
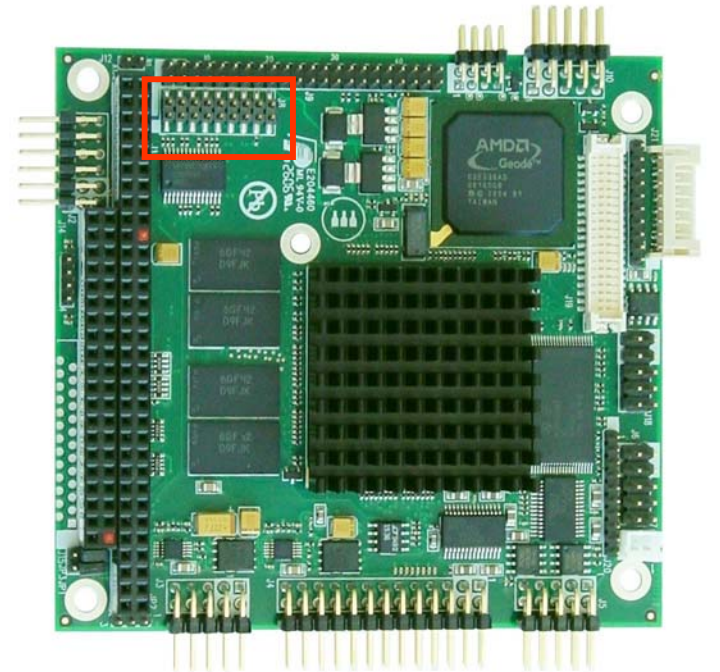
CPU-1233 Connectivity

Standard Connectors

AC97

- AC97 Version 2.3 compliant

Connector

- J8
- 9 x 2 pins
- 2.00mm pitch

Differences
CPU-1232 was only version 2.1 compliant
CPU-1233 does not have AC97CLK signal
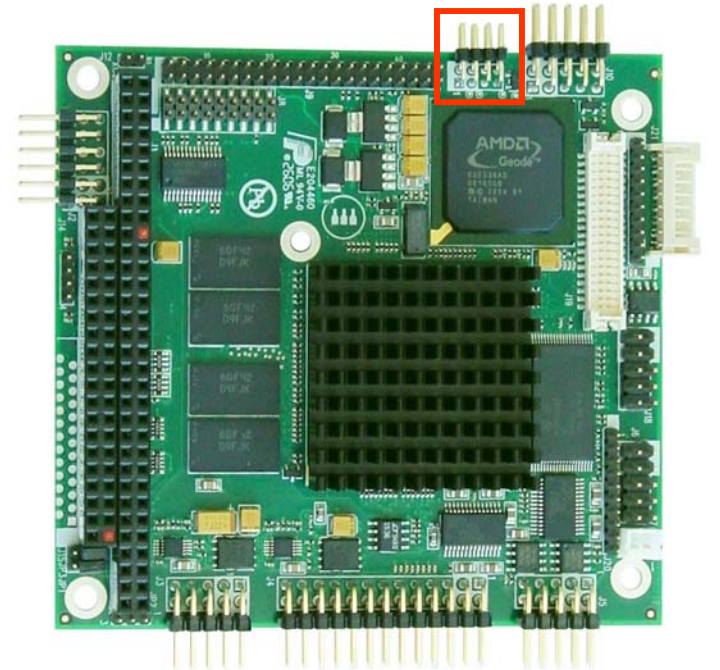
CPU-1233 Connectivity

Standard Connectors

USB 0 & 1

- USB 2.0 compliant
- Low, Full or High Speed

Connector

- J7
- 4 x 2 pins
- 2.00mm pitch

Differences
Connector is now 90 degrees
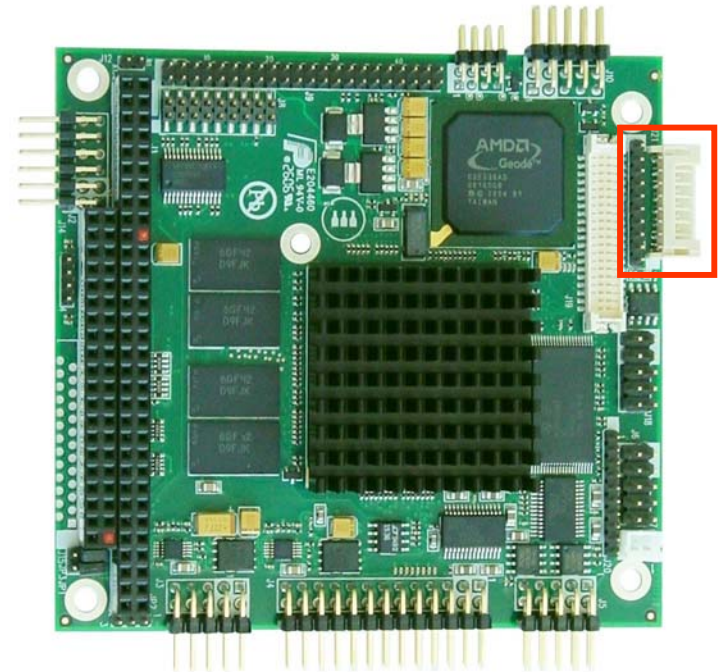CPU-1232 was only USB1.1

CPU-1233 Connectivity

Standard Connectors

USB 2 & 3

- **USB 2.0 compliant**
- **Low, Full or High Speed**

Connector

- **J21**
- **8 x 1 pins**
- **2.54mm pitch**

Differences
New connector
CPU-1232 was only USB1.1

CPU-1233 Connectivity

Standard Connectors

External Power

- **External power input**
- **Support forAT or ATX PSU**

Connector

- **J11**
- **6 x 2 pins**
- **2.54mm pitch**

Differences
No change