



Features

- Fanless Industry Embedded platform
- Intel® Dual-core D510 1.6 GHz Processor
- Intel® ICH 8-M South Bridge Chipset
- DDR-2 667 MHz, On board 512MB + SO-DIMM, up to 2 GB w/o ECC
- 1 Mini PCI & 1 Mini PCI-E expansion slot
- 1 removable & 1 internal CF socket
- Supports 2 Giga LAN, SATA HDD
- Supports 8 COMs & isolation D-I/O
- DC 9V ~ 30V power input

Specifications

Fanless Platform

- Low power, low operating temperature
- Fanless Aluminum Alloy Embedded System

Dimensions

- 235.6 (W) x 76.5 (H) x 230 (D) mm, Compact size

Processor

- Supports Intel® Atom Dual-core D510 1.6 GHz low power Processor

- 512KB L2 Cache, supports 64 bit, HT, XD technology
- Built-in media grade high performance Graphic engine

Chipset

- Intel® ICH 8-M South Bridge Chipset

Memory

- On board 512MB + 1 SO-DIMM Socket,
Up to 2 GB w/o ECC, 667 MHz DDR 2 Memory

BIOS

- Phoenix BIOS
- Supports Console Redirection & Power On After Power failure

Disk Drive Storage

- 1 channel SATA interface + 1 internal CF slot

Expansion

- 1 Mini PCI + 1 Mini-PCI-E expansion slot

Ethernet

- 2 Realtek 8111C 100/1000 Mbps LAN interface with Wake-On-LAN & DMI

Watchdog Timer

- Programmable WDT from 1 to 255 seconds

Display Function

- Supports high resolution 2048 x 1536 VGA display

Hardware Monitor

- monitors voltage & temperature

Support RTC & CMOS RAM

- Supports Real Time Clock feature
- 256 bytes CMOS RAM built-in chipset

Audio

- ALC662-GR Codec supports Speaker-out

RS-232 / 485 Supports

- 2 DB-9 RS-232/485, 6 DB-9 RS-232 w/ optional DC-output

Cable-Free

Support Hot Swappable CF

- Supports Hot swappable external CF slot

Smart Battery Interface

- Supports DC output & SMBus for Smart battery kit

Super I/O

- ITE 8712 & Fintek 81216 Super I/O for KB, MS, COM, Thermal monitor, Voltage monitor

Support Digital I/O w/ Isolation Protection

- 3 D-In, supports Dry / Wet contact, low level 0~3V, High level 10 ~ 50V. 2500V isolation protection
- 2 D-Out, 500 mA drive capability. 2500V isolation protection

Front Panel Extend I/O

- 4 DB-9 for RS-232, 2 USB, 4 LED, Power switch & Reset
- 1 Hot Swappable CF slot

Rear Panel Extend I/O

- Screw-Lock DC-9 ~ 30V power input, 3-pin connector
- 2 DB-9 for RS-232/485, 2 DB-9 for RS-232
- 1 DB-9 for 3 D-in + 2 D-out, 1 DB-15 for VGA
- USB x 2, 2 RJ-45 100/1000 Mbit LAN connector
- 1 Speaker out connector
- Power LED + HDD LED, 1 Power button

Internal I/O Interface

- 1 Mini PCI + 1 Mini-PCI-E expansion slot
- 1 CF slot, 2 SATA storage interface
- Total up to 4 D-In, 4 D-Out internal connector
- 1 x 5.1 channel Audio, CD-in, pin header
- 1 x 18-bit LVDS connector

Power Supply

- DC: 9V~30V / 1.5~5 A input

Power ON/OFF Mode

- AT or optional ATX Power ON/OFF mode

Environments

- Operating Temperature: -20°C ~ 50°C
- Storage Temperature: -20°C ~ 80°C
- Relative Humidity: 10% ~ 90% (Non-condensing)

Certification

- CE Class A
- FCC Class A

Ordering Guide

Specification may change without notice

Ordering NO.	CPU	Memory	LAN / USB / CF	DB-9 RS-232/485	Isolation D-I/O	GPS / HSDPA	PCI-32 slot
Pipal 2140U-835	D510 Dual-core 1.6GHz	512MB	2 GE/4 USB/2 CF	232/485 x2, 232 x6	3 D-IN , 2 D-OUT	N/A	N/A

Optional order :

- 60W / 120W Power Adapter, HDD, SO-DIMM Memory
- Wireless LAN Module, Anti-Vibration HDD drive bay

