

Pipal 2013D

Embedded System



AMD LX-800 DIN-rail Fanless Embedded Platform
LAN, USB, VGA, RS-232, Mini-PCI
Isolation RS-422/485 & Isolation D-I/O

Features

- DIN rail Fanless Industry Embedded platform
- AMD LX-800 500 MHz low power embedded Processor
- DDR-1 Memory, SO-DIMM, up to 1 GB w/o ECC
- 1 Mini PCI + PCI 104 plus expansion slot
- 1 IDE & 1 SATA interface, 1 CF storage device interface
- Supports 2 FE, 2 DB-9 COM
- Extra supports 2 RS-422/485 & Isolation D-I/O
- DC: 9V ~ 30V power input

Specification

Fanless platform

- Low power low operating temperature
- Fanless platform w/o active cooling part failure problem

Form Factor

- DIN-rail Heavy-Duty Steel Embedded platform

Dimensions

- Compact size, 60(W) X 130(D) X 180(H) mm

Processor with North Bridge

- AMD LX-800 500 MHz Ultra low power Processor
- With 64KB I-cache / 64KB D-cache and 128KB L2 cache
- Integrates North bridge core logic inside

South Bridge

- CS-5536 South bridge Multi-Function Chipset

Memory

- High Reliable 266 / 400 MHz DDR Memory
- One channel SO-DIMM socket, up to 1 GB w/o ECC

BIOS

- 512KB Award System BIOS

ACPI function

- Software Power off (ATX mode)
- Wake On LAN(S5) / Keyboard(S1) / Ring(S1) / RTC alarm(S1)

Linux Driver support

- Watch-Dog Timer Driver
- System status LED control Driver
- Event Trigger Driver from Push Button

Disk Drive Storage

- 1 IDE DMA 66/100 2.5" & 1 SATA Interface
- 1 2.5" HDD Drive bay
- 1 CF slot
- Selectable CF as Master + HDD as Slave
- Or Selectable HDD as Master + CF as Slave

FE Ethernet

- 2 ports of PCI I/F Realtek 8100(FE) LAN controller
- with RJ-45 connector
- Supports MDIX media auto reverse function
- Supports Boot from LAN function

Display support

- 1 DB-15 VGA supports 1920x1440x32 bpp at 85 Hz
- 1600x1200x32 bpp at 100 Hz

PCI expansion slot support

- 1 Mini-PCI & 1 PCI-104 plus expansion Interface

Watchdog timer

- Software programmable WDT from 1 to 255 seconds

RS-232/485 support

- 1 DB-9 RS-232, 1DB-9 RS-232/485 with optional DC-output

RS-422/485 w/ isolation protection support

- Signal with 2500Vrms isolation protection (1 Sec)
- 5V Power with 3000V DC Isolation protection
- External jumper wire Enable/Disable Termination Resistor

Digital I/O w/ isolation protection support

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

Multi-function Micro switch

- Selectable function as: Reset/ Event trigger/ Power ON/OFF

Battery Back-up SRAM & Real Time Clock RAM

- 256 bytes CMOS RAM built-in ICH-4 chipset
- Backup by non-rechargeable Lithium cell battery

External I/O support

- 1 DB-15 VGA connector
- 2 USB 2.0 connector
- 2 RJ-45 LAN connector
- 1 DB-9 RS-232, 1 DB-9 RS-232/485
- 2 RS-422/485 with 3.5 mm DIN connector
- D-in/out with 3.5 mm 8 pin DIN connector
- 1 DC Input Power jack connector
- 1 switch for power ON/OFF
- 3 LED for power / storage / status information

Internal reserved I/O supports

- 2 USB 2.0 connector
- 1 RS-232 connector

Power Supply

- DC input 9 ~ 30V, typical power consumption : 7 W

Power ON/OFF mode

- AT or ATX Power ON/OFF mode

Color

- Black 4U

Environments

- Operating Temperature : 0°C ~ 40°C
- Storage Temperature : -20°C ~ 80°C
- Relative Humidity : 10% ~ 90% (Non-condensing)

Certification

- CE Class A
- FCC Class A

Ordering Guide

Ordering No.	CPU	Memory	LAN /USB /CF	DB-9 RS-232/485	Isolation RS-422/485	Isolation D-I/O	Din Rail Support
Pipal 2013D-135	AMD LX-800	512MB	2 LAN/ 2 USB / 1 CF	1 RS-232, 1 RS-232/485	2	3 D-IN, 2 D-OUT	Available

• Optional order :

- 60W Power Adapter , HDD , SO-DIMM Memory

Specifications subject to change without notice

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