User's Manual
Manual 1.0

PL-01030
Fanless Micro PC with AMD Geode LX800 Low Power Processor Manual

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PL-01030, Version 1.0

Chapter 1. General Information

1-1. Introduction

The PL-01030 is a very compact, low-power, fanless Micro PC that supports full functions. This product is appropriate for the projects requiring thin client architectures. Specific applications include: Network gateway appliance, security control, general Windows XP application (not heavy loading), or any project requiring extremely compact size, low power and fanless operation.

Inside the PL-01030 platform product is the IP-06060, a 3.5" SBC board featuring the AMD® CS5536 chipset and AMD® Geode™ LX800 500 MHz processor.

The product supports:

CRT and 24-bit TFT panels, one ATA-66 IDE device, one CFC socket, Dual Intel® 82551ER (or Realtek RLT8139CL+) Ethernet chipset with two RJ45 jack for 10/100Mbps, 4 COM ports, 4 USB 2.0 ports, one Parallel port & Microphone & Speaker out..

For additional details refer to IP-06060 Manual.

1-2. Specifications

| Specifications	
General Functions	
CPU	AMD Geode LX800 processor
BIOS Insyde® 512KB Flash BIOS	
Chipset	AMD CS5536
I/O Chipset Winbond 83627HG	
Memory	One 200-pin DDR SO-DIMM socket support up to 1GB DDR 333/400 Memory
Enhanced IDE Support one Ultra ATA-66 IDE	
Parallel port Support SPP/ECP/EPP	
Serial port	Three RS-232 and one RS-232/422/485 serial ports.
IR interface Support one IrDA Tx/Rx header	
Support four USB 2.0 ports: two on external Connector, USB connectors: two on Pin-header	
Battery	Lithium battery for data retention up to 10 years(in normal condition)
Watchdog Timer Software programmable, 1-255 level	
Power management APM 1.2 compliant Flat Panel/CRT Interface	
VGA Chipset	AMD Geode LX-800
Display memory Share system memory 2~254MB	
Display type	Simultaneous supports CRT and 24-bit TFT LCD
CRT Resolution support up to 1920 x 1440 @ 32bpp or Resolution 1660 x1200 @ 32bpp CRT & LCD simultaneous: up to 1024 x 768 @ 18bpp (60Hz)	
LVDS (Optional)	Optional 18/24-bit LVDS Adaptor available
Ethernet Interface R-053A for 24-bit LVDS; R-053B for 18-bit LVDS	
Chipset	Dual Intel 82551ER or Realtek RTL8139CL+
Ethernet interface PCI 100/10 Mbps Ethernet controller	
SSD Interface	
	One 50-pin CompactFlash™ socket
Sound	
Chipset	Optional AC 97 codec
SoundBlaster Pro Hardware and Direct Sound Ready AC97 Audio controller, Digital Audio	
Audio interface	Mic in and Speaker out
Software Driver Supports for Windows XP Mechanical and Environmental	

External Power Adaptor	5V, 25W
Max. power requirements +5 V @2.4A,	
Operating temperature	32 to 104°F (0 to 40°C)
Dimensions w/o base kit; 146.1mm (L) x 51mm (W) X 222.5mm (H)	
Weight	TBD (Kg) Net Weight

1-3. Mechanical Drawing
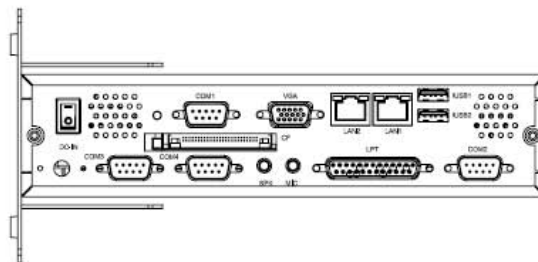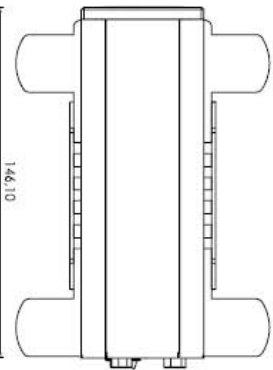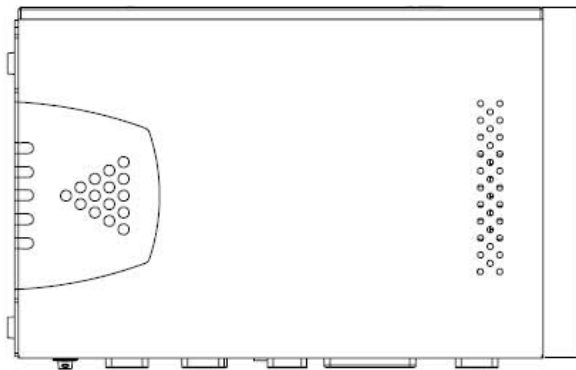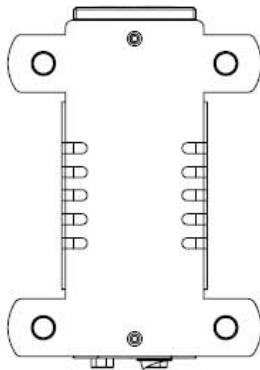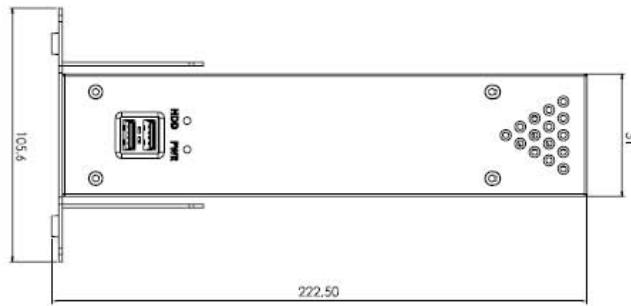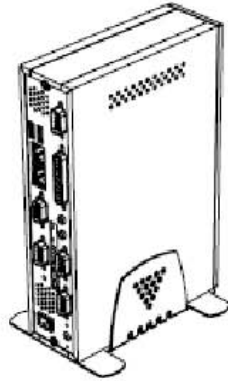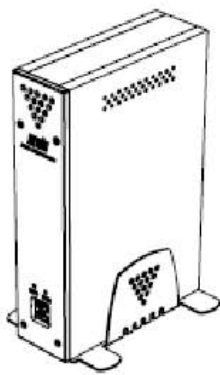
Chapter 2. Installation and Configuration

Installing the HDD

     (1) Open the box by unscrewing the two screws from the bottom cover of PL-01030, remove the two brackets.

     (2) Fix the HDD on the HDD bracket by screwing the four screws from the two sides of HDD bracket. Then connect the 44-pin HDD cable from the other sides of CPU board as pictured below.

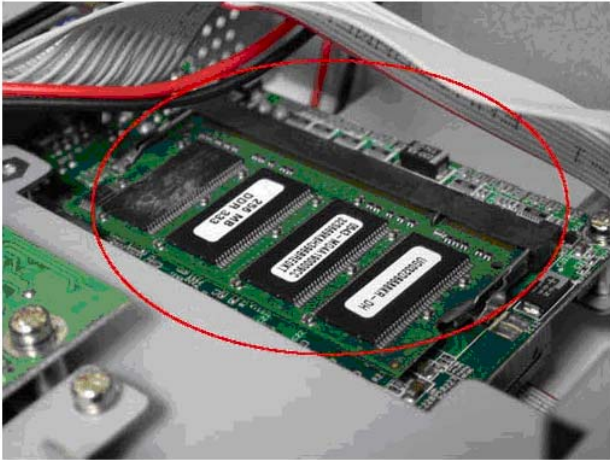(3) Connect the 44-pin HDD cable to CON 11.

2-1 Installing the memory

    (1) Open the box.
    (2) Insert the single slot DIMM memory into the socket on the back side

2-2 Installing the CF card

(1) No need to open box, just plug into the hole between COM1 and COM4 connector as in the below picture. Note to face the CF card downsides.