ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

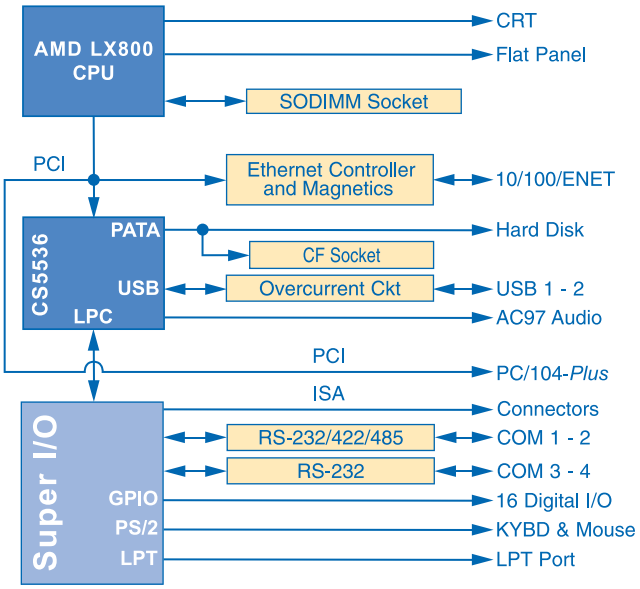
Find the *WinSystems PPM-LX800-G-ST* at our website: ***Click HERE***

PPM-LX800-G

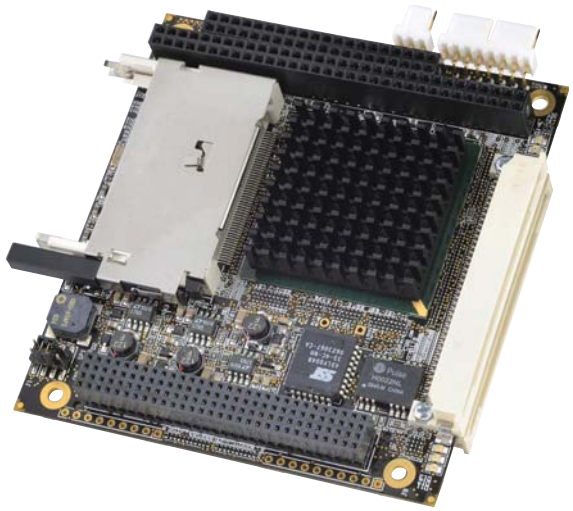
PC/104-*Plus* Single Board Computer with Ethernet and Video

Features

- 500MHz AMD LX800; x86-compatible CPU
- PC/104-*Plus* compliant 3.6 x 3.8 inches (90 x 96mm)
- Up to 1 GB of SODIMM system SDRAM supported
- CompactFlash socket; accepts Type I or II cards
- PC-compatible; supports Linux, Windows® XP embedded, DOS, and other x86-compatible RTOS
- High-resolution CRT and panel controller
- Full-featured I/O includes:
  - One 10/100 Mbps Ethernet port
  - Two USB, 2.0 ports, with overcurrent protection
  - Two RS-232 COM channels
  - Two RS-232/422/485 COM channels
  - 16 Bidirectional GPIO with event sense
  - PATA, LPT, PS/2 KYBD, and mouse controller
  - AC97 Audio, WDT, RTC, and activity LEDs
- Quick Start Kits for software development
- Extended operating temperature: -40° to +85°C
- +5 Volt only operation



PPM-LX800-G Block Diagram



Product Description

The PPM-LX800-G is a highly integrated, PC/104-*Plus* single board computer (SBC) designed for embedded, space-limited, low power applications. It is a full-featured SBC that includes an AMD LX800 x86-compatible CPU, CRT and flat panel video controller, 10/100 Ethernet, two USB 2.0, 16 lines of digital I/O, and four COM channels on a single 3.6 x 3.8 inches (90 x 96mm) module.

It also includes the standard PC controllers for IDE hard disks, CompactFlash device, mouse, keyboard, AC97 audio and LPT. Its x86 PC software compatibility assures a wide range of tools to aid in your applications program development and checkout. It supports both Windows®XPe and Linux operating systems. A Quick Start Kit provides the necessary hardware and cables to begin program development with the board.

The PPM-LX800-G is well suited for rugged applications requiring excellent processor performance in an embedded PC design. Its low power dissipation permits fanless operation from -40° to +85°C.

This board is designed to be a performance and feature upgrade, and replacement for current users of our PPM-TX and PPM-GX500 boards. For questions about any differences in these boards or new software drivers that may be needed, please contact a WinSystems' Applications Engineer.

PPM-LX800-G: PC/104-*Plus* Single Board Computer

Technical Specifications

Processor
AMD LX800 @ 0.9W with 500MHz system clock

Memory
256KB of L2 cache
Up to 1GB with a 200-pin SDRAM in a SODIMM connector

Display
CRT supports resolutions up to 1920 x 1440
Flat Panel supports resolutions up to 1600 x 1200 x 24-bit

Network Interface
One 10/100 Mbps using the Intel 82551ER LAN

Storage
One CompactFlash socket supports Type I or II devices
One PATA interface supports two drives (UDMA66)

On board I/O
Two USB 2.0 ports with overcurrent protection
Four 16C550-compatible serial channels all with RS-232 levels, plus two of the channels support RS-422/485 electrical levels
One PS/2 keyboard controller
One PS/2 mouse controller
16 lines of general purpose digital I/O with event sense
Bidirectional LPT interface
AC97 audio with MIC In, Line Out, and Line In
Speaker output for beep tones
Status LEDs for Link, Activity, and Speed activities
RTC with optional battery back up
Watchdog timer reset adjustable up to 255 minutes

Expansion Bus Connectors
PC/104 and PC/104-*Plus*

Power
+5V required, 1.2A typical

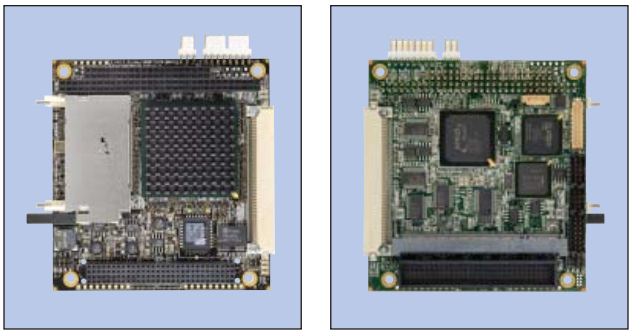
Software
AMI BIOS in 2MB SPI flash drive
Compatible with most x86 operating systems including DOS, Linux, and Windows XPe

Environment
Operational from -40° to +85°C
RoHS compliant

Mechanical

Dimensions	3.6 x 3.8 inches (90 x 96mm)
Weight	4.6 oz (130 gm)
PC Board thickness	0.078"

WinSystems reserves the right to make changes to products and/or documentation without further notification. Product names of other companies may be trademarks of their respective companies.



Front and Back Picture of PPM-LX800-G

Ordering Information
(See website for complete ordering information and accessories.)

PPM-LX800-G	PC/104-*Plus* LX800 SBC with video, Ethernet, and digital I/O
PPM-LX800-G-ST	PC/104-*Plus* LX800 SBC with video, Ethernet, digital I/O, and PC/104 stackthrough connectors

Video

ADP-LVDS-T-1	LVDS adapter module
CBL-296-1-1.5A	LVDS adapter to panel cable

Cables

CBL-SET-359-G-1	PCM-LX800-G cables and accessories set, includes:
CBL-174-G-1-1.5	8-wire Power cable
CBL-234-G-1-1.375	14-pin Hirose to 15-pin D-sub
CBL-251-G-1-1.5	Multi I/O breakout
CBL-270-G-1-1.5	Audio input/output cable
CBL-275-G-1-0.5	Dual USB adapter cable
CBL-352-G-1-1.5	IDE and digital I/O breakout
BAT-LTC-E-36-16-1	External 3.6V, 1650 mAH battery

Optional Batteries

BAT-LTC-E-36-16-1	External 3.6V, 1650 mAH
BAT-LTC-E-36-27-1	External 3.6V, 2700 mAH

System Memory

SODIMM200-G-27-xxx	DDR PC2700 SDRAM, 128MB - 1GB

CompactFlash (details www.industrialcompactflash.com)

CF-DC-A-xxx-I	1 - 16GB High Speed CF cards
CFLASH-G-xxx-I	128MB - 8GB CF cards

WinSystems reserves the right to make changes to products and/or documentation without further notification.

Product names of other companies may be trademarks of their respective companies.

WinSystems® An Employee-Owned Company

WinSystems | 715 Stadium Drive, Arlington, TX 76011 USA | Tel 817-274-7553 | Info@WinSystems.com | www.WinSystems.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP