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PPM-LX800 Extended Temperature PC/104-Plus SBC

The PPM-LX800-G is a highly integrated PC/104-Plus Single Board Computer (SBC) designed for space-limited and low-power applications. It is a full-featured SBC that includes the AMD LX800 x86-compatible CPU.

Onboard I/O functions include analog CRT and digital flat panel video controller, 10/100 Ethernet controller, two USB 2.0 ports with over-current protection on each channel, and four COM channels. The PPM-LX800-G includes standard PC controllers for IDE hard disks, CompactFlash devices, PS/2 mouse and keyboard controller, AC'97 audio, LPT, PC/104, and PC/104-Plus expansion connectors all on a single 90mm x 96mm industry-standard module.

There are 16 bits of TTL-compatible digital I/O with each line individually programmable for input, output, or output with read-back operation. The major feature of the onboard digital I/O controller is its ability to monitor the 16 lines for either rising or falling digital edge transitions, latch them, and then interrupt the host processor notifying it that a change-of-input status has occurred.

The PPM-LX800-G has x86 PC software compatibility, which assures a wide range of tools to aid in your application's program development and checkout. It supports both Windows® XP Embedded and Linux operating systems and other real-time operating systems. WinSystems provides free technical phone support to assist customers with system integration of our SBCs and I/O modules in their designs.

Its low power dissipation permits fanless operation over a temperature range from -40°C to +85°C. This board is well suited for rugged applications requiring excellent processor performance in an embedded PC design. It is RoHS compliant.



FEATURES

- > AMD LX800 CPU; x86-compatible
- > Small size: 90mm x 96mm
- > Video with CRT resolutions to 1920 x 1440 and panel resolutions to 1600 x 1200
- > Custom splash screen on start-up
- > 10/100 Mbps Ethernet controller
- > Two USB 2.0 ports with overcurrent protection
- > Four COM channels with FIFOs
- > 16 digital I/O lines with event sense supported
- > AC'97 audio, LPT, mouse, and keyboard controllers
- > -40°C to +85°C operating temperature
- > Long-term PC/104-Plus product availability