# WinSystems®
## PC/104 MODULE

# PCM-POST System Diagnostic Module

## FEATURES

- Power-on System Test (POST) PC/104 module
- BIOS Diagnostic POST codes shown on two 7-segment displays
- Supports user diagnostic and status codes
- Light Emitting Diodes (LEDs) on +5, +12, and -12 volt lines provide visual status of power supplies
- Only +5 volt supply required for operation
- -40°C to +85°C operating temperature

## FUNCTIONAL CAPABILITY

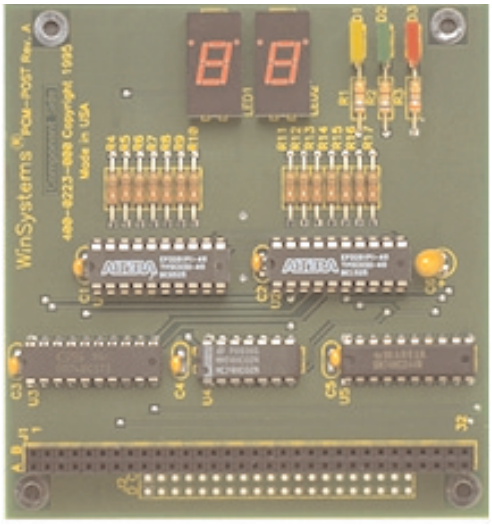
The PCM-POST PC/104 module is a helpful diagnostic tool used for isolating power-up problems occasionally found in AT-compatible single board computers. During boot-up, the ROM BIOS (Basic Input/Output System) routines test the board's status. If a problem is found, it immediately defines and displays a status code on the digital display.

**PC/104 Bus Interface** - The PCM-POST module is a fully compliant PC/104 board decoding a single I/O port at 80 hexadecimal.

**BIOS Post Codes** - The BIOS on most PC-AT compatible single board computers output Power On Self Test (POST) codes during the power-up sequence. A 2-digit HEX code is output prior to each major initialization or diagnostic step once the system is running. If the diagnostic or initialization sequence fails or locks-up, the displayed code indicates the type of operation attempted when the failure occurred. This information can be very useful in troubleshooting a system that for some reason is not booting correctly.

The PCM-POST has two seven segment displays which decode these 2-digit HEX diagnostic status values. The POST codes for the BIOS used in WinSystems' Embedded PCs are listed in the PCM-POST operation manual for easy reference.

**Custom Diagnostic/Status Codes** - The PCM-POST module is also useful to display an application program's status and can be used for software debugging in real-time where more intrusive debugging methods are not available or practical.



**Monitor LEDs** - Three LEDs on the PCM-POST provide a visual status of the power supplies. A red, green, and yellow LED is used for easy visual reference for the respective +5 volt, +12 volt and -12 volt supply lines.

## SPECIFICATIONS

### Electrical

PC/104 Bus: 8-bit, stackthrough
Power: +5V ±5% @ 175mA typ. (fully illuminated)
+12V +5% @ 15mA (for onboard LED)
-12V +5% @ 15mA (for onboard LED)

### Mechanical

Dimensions: 3.6 x 3.8 x 0.6 inches
(90mm x 96mm x 15mm)

### Connectors

PCM-POST: 32-pin double row, 0.025" square posts

### Environmental

Operational Temperature: -40°C to +85°C

## ORDERING INFORMATION

| | |
|---|---|
| PCM-POST | 8-bit, PC/104 System Diagnostic Module |

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