

PCM-3540 T/R

LVDS Transmitter/
Receiver Module



Introduction

Advantech's PCM-3540T/R provides an ingenious way to extend the range of LCD panel monitors. By employing LVDS technology with transmitting and receiving units, LCDs can now be placed up to 12 meters away from the computer. The cable connecting the transmitter to the receiver comes in various lengths: 2 m, 3 m, 5 m, 10 m and 12 m.

Some of the advantages to using Advantech's PCM-3540T/R are: potential 12-meter increase in range of your LCD display, Advantech's transmitter-cable-receiver combinations exceed CE and FCC Class A, EMI standards.

Furthermore, by using the PCM-3540T/R, Advantech's CPU card/board equipped with C&T 65550 chips now support 36-bit XGA TFT LCD. The following example shows a combination used with the Advantech CPU card to light a Sharp 36-bit XGA TFT LCD.

Example:

CPU card: PCA-6153-02A2

LVDS transmitter: PCM-3540T-00A1

LVDS receiver: PCM-3540R-00A1

LVDS cable (12-meter long): PCM-10354-1200

Flat panel cable (from PCM-3540R to LCD): 1906000002

LCD (Sharp LQ14X03E): 1304002730

You may need to modify the CPU BIOS to light the Sharp LQ14X03E LCD. Please contact the Advantech Customer Service Department for the modified BIOS.

Specifications

- Standard PC/104 form factor for PCM-3540T
- Supports 18-bit, 24-bit, and 36-bit resolutions up to 1024 x 768 TFT LCD
- On-board 44-pin + 16-pin LCD interface
- Transmission distance options: 2 m, 3 m, 5 m, 10 m, 12 m
- On board 4-pin power supply connector for PCM-3540R

Dimensions

PCM-3540T: 90 mm x 96 mm

PCM-3540R: 62 mm x 72 mm

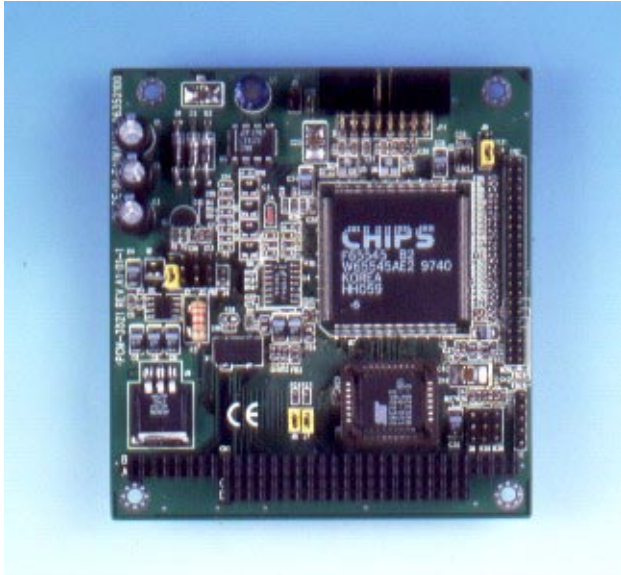
Ordering Information

- | | |
|---|-------------------------|
| <input type="checkbox"/> PCM-3540T-00A1 | LVDS Transmitter Module |
| <input type="checkbox"/> PCM-3540R-00A1 | LVDS Receiver Module |
| <input type="checkbox"/> PCM-10354-0200 | LVDS cable 2 m |
| <input type="checkbox"/> PCM-10354-0300 | LVDS cable 3 m |
| <input type="checkbox"/> PCM-10354-0500 | LVDS cable 5 m |
| <input type="checkbox"/> PCM-10354-1000 | LVDS cable 10 m |
| <input type="checkbox"/> PCM-10354-1200 | LVDS cable 12 m |

PCM-3521 PCM-3835

Flat Panel Display Module

IDE Flash Disk Module



PCM-3521

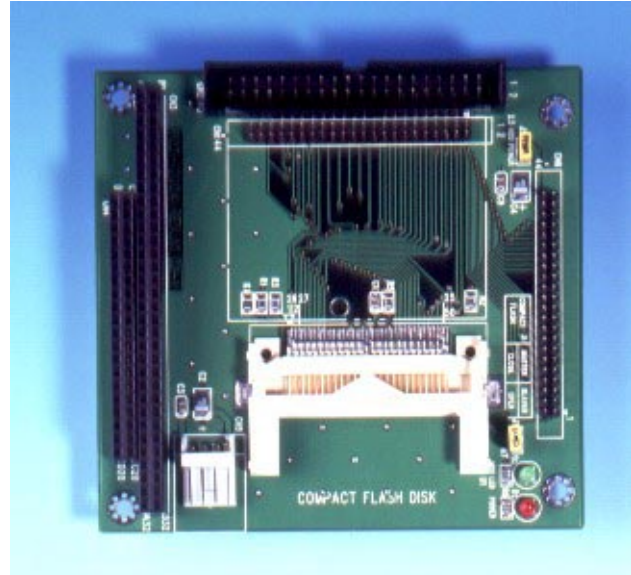
The PCM-3521 flat Panel/CRT Display PC/104 Module supports a wide range of popular flat-panel displays and traditional analog CRT monitors in high resolution display modes, while maintaining complete register, gate, and BIOS compatibility with the IBM VGA standard. It also supports the use of a flat-panel display and a CRT VGA display at the same time.

Specifications

- Standard 16-bit PC/104 form factor
- C&T 65545 chip
- On-board 1 MB video memory
- On-board 512 KB frame buffer
- On-board DC-DC converter supplies LCD bias voltage (V_{EE}) from -35 to $+35$ V
- On-board variable resistor for panel contrast adjustment (may be extended through wires to display)
- Supports 3.3 V / 5 V LCD power
- High resolution display:
 - B/W panel: 800 x 600 @ 61gray scales
 - Color panel: 800 x 600 @ 256 colors
 - CRT: 800 x 600 @ 256 colors

Ordering Information

- PCM-3521-00A1 Flat panel/CRT Display Module



PCM-3835

The PCM-3835 is an IDE Flash Disk Module that simultaneously supports one Advantech PCD-1230A IDE Flash Module, and one Advantech PCD-100 Compact Flash Card. This unique data storage device is faster and more reliable than conventional mechanical disk drives and is a cost-effective storage solution for many industrial computing applications.

Specifications

- Standard 16-bit PC/104 form factor
- Fully compatible with standard IDE interface
- Supports one PCD-1230A and one PCD-100 compact Flash card
- $+5$ V \pm 10% operating voltage
- 0 to 60° C operating temperature
- Two 44-pin HDD connectors with 2.0 mm pitch; one 40-pin HDD connector with 2.5 mm pitch

Ordering Information

- PCM-3835-00A1 IDE Flash Disk Module

Options

- PCD-1230A-04A1/08A1/16A1 IDE Flash Module with 4/8/16 MB Memory Capacity
- PCD-100-0004/0010/0020/0030/0040 Compact Flash Card with 4/10/20/30/40 Memory Capacity