PLRT1 PanelLink Board

A PanelLink™ receiver board designed specifically for the OEM market

Features include:
- DVI 1.0 Compliant Digital Receiver
- Single Channel PanelLink™ Interface supports VGA through SXGA resolutions
- Universal panel interface for single or dual pixel per clock, 18 bit or 24 bit bits per pixel
- Switching power supply and regulators for both 5V and 3.3V panels
- Universal Inverter interface adapts to all inverter types and interfaces
- On-board Dynapro SC-4 Touch screen controller option

The PLRT1 board drives an LCD flat panel using the new DFP or DVI digital computer video standards. This means lower cost and simpler integration for the OEM looking to use LCDs in their equipment. The PLRT1 board combined with a standard Molex digital cable and the Reach provided panel-specific cables provide a complete off-the-shelf solution. The PanelLink connection enables distances of up to 10 meters between the computer and the display. The PLRT1 includes an optional Dynapro resistive touchscreen controller for either 4 or 8 wire resistive touchscreens.

DVI 1.0 PanelLink™ Interface
- Compatible with popular DVI compatible graphics cards from ATI, Appian, and Matrox, Nvidia
- Supports resolutions up to SXGA (1280x1024) at 24 bits per pixel
- Allows cable runs of up to 10 meter range from PC

Efficient Power Operation
- 12V input powers board and panel's inverter
- Switching regulator to minimize power consumption and heat generation
- Panel power selectable 5V or 3.3V

Dynapro SC-4 Touch Controller on-board (option)
- Fourth generation Dynapro touch controller
- Supports 4 or 8 wire panels
- RS-232 interface
- ESD protected touch input for reliability

Universal Backlight Inverter Interface
- Jumpers support either positive or negative enable with adjustable high level voltage
- Brightness Vmax. and Vmin adjustable; PWM optional
- Brightness control via DPMS, external control, or software

Simplified Cabling
- DF9 connectors support lightweight flat flex cabling to VGA and SVGA panels
- Modular connectors for scaling from single to dual pixel, and from 18 to 24 bit per pixel
- Single cable connects to backlight inverter using the same high density connectors used by most inverters
- Reach provides cabling for all panel types

Board Specifications

Board Size	6"W x 7"H / 15.24mmW x 17.78mm
Operating Temperature	0° to 50°C
Inverter Connector	Molex 53261-0890
EDID / DDC2B	Yes
Power input	12VDC, supply current panel dependent; typically 1A for common SVGA panel including backlight
Storage Temperature	0° to 50°C
Panel Connectors	DF9-31P, DF9-41P, DF13-30DP, DF13-20DP
Power Management	Windows DPMS compatible