

OXPCIe840, PCI Express to Parallel Port

Highlights

■ General Features

- Single IEEE1284 parallel port
- PCIe x1 end-point
 - Integrated 2.5 GT/s SerDes
- 11 x 11mm², 120-pin TFBGA package
- Typical Power: 200 mWatts

■ Key Features

○ Standards Compliant

- PCI Express Base Specification, r1.1 (backwards compatible with PCIe r1.0a)
- PCI Power Management Spec, r1.2
- ExpressCard, Mini Card & AIC compatible
- MSI/MSI-X compatible
- ASPM (LOS, L1) Link power management

○ High Performance

- IEEE1284 compliant parallel port:
 - Supports SPP, EPP, and ECP modes
 - 5V tolerant parallel port I/Os
 - Direction control logic for external parallel port drivers

○ Flexibility

- 8 user-configurable GPIOs/PWMs
- Device parameters configurable via EEPROM
- 1.8V, 2.5V or 3.3V UART & GPIO I/O voltage

○ Robust Operation

- Operation from a single 3.3 V supply
- Industrial temperature range -40°C to 85°C

○ Broad Device Driver Support

- Windows Vista/XP/2K
- WinCE 4.2/5.0/6.0
- Linux 2.4/2.6

Part of the **Expresso** family of high performance PCI Express devices, the OXPCIe840 is a single chip parallel port device in a range of 2, 4 & 8 serial port solutions, that includes the OXPCIe952, OXPCIe954 & OXPCIe958.

Incorporating PLX Technology's high performance parallel port technology, it combines outstanding system performance with unrivaled flexibility for a class leading connectivity solution.

Complete with the Oxide development tools and certified device drivers, the OXPCIe840 is easy to design-in and the ideal connectivity solution for a diverse range of products including: PC Add-on Cards, Industrial PC, Point of Sale Terminals, Industrial Control, and Embedded Systems.

Accelerate your product development and time to market with Oxide and PLX Technology's easy to design-in, high performance serial connectivity solutions that just work.



OXPCIe840, PCI Express to Parallel Port

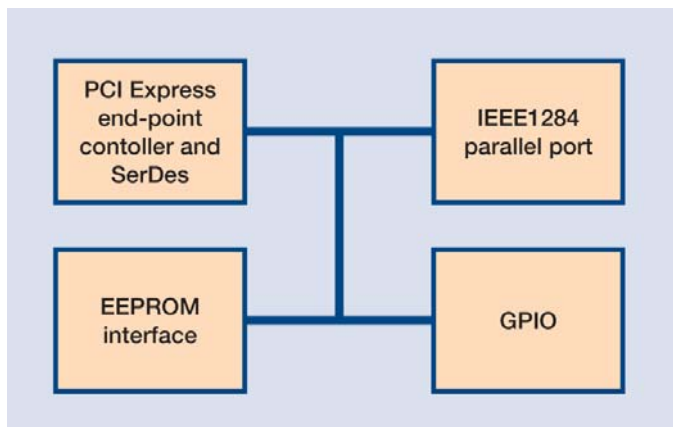
Outstanding Performance

The OXPCIe840 offers the flexibility of SPP, EPP, and ECP modes of parallel port operation, with advanced MSI interrupt handling for optimum system performance.

Its 5V tolerant IOs can be connected directly to a parallel port device or for true 5V signalling environments the OXPCIe840 includes the direction control logic required for an external parallel port driver. Additionally the device provides 8 GPIO/PWM lines for further flexibility and product customization.

With comprehensive power management and industrial temperature range as standard, the OXPCIe840 is perfect for power and temperature sensitive ExpressCard and MiniCard designs and is *the* choice for high performance systems.

To support these advanced features the OXPCIe840 is backed by a dedicated PLX device driver that is quality assured, exhaustively tested and WHQL approved; saving development time and providing peace of mind.



OXPCIe840

Development Support



Design and evaluation of the OXPCIe840 couldn't be easier with this comprehensive reference design kit (RDK). The RDK includes everything you need for PC installation and evaluation including Hardware, Oxide Development Tools and software device drivers. Simply plug the half length PCI Express evaluation board into any PCI Express slot, install the software and its ready to go.



Changing the dynamics of device customization, Oxide development tools enable customization of the OXPCIe840 in minutes. No more complex, time consuming, error prone manual editing of programming files and driver source code; Oxide's intuitive graphical user interface provides simple 'point and click' feature selection and text box entry for fast, error free customization with minimal software expertise as well as instant access to up to date documentation, software and reference designs. Check the PLX website for details.

Ordering Information

Part Number	Description
OXPCIe840-FBAG	Parallel Port to PCIe Bridge
EK-OXPCIe840	Reference Design Kit