

# PCI/PCI Express and Embedded System Tools

Product Selector Guide



	Extenders			Adapters		Backplanes	
Product	PCIe Cable Extender	PCIe Extender	32-bit PCI Bus Extender	PCI to PCIe Adapter	PCI to PCI Mezzanine Card (PMC) Adapter	PCI Express Expansion Backplane	PCI Expansion Backplane
Host connector	x1 PCIe/ExpressCard	x1 PCIe	PCI Universal, 32-bit	PCI Universal, 32/66	PCI Universal, 32-bit	x1 PCIe	x1 PCIe
Peripheral Connector(s)	x1 PCIe	x1 PCIe, 45° angled	32-bit PCI (5V or 3.3V), 45° angled	x1 PCIe	PMC, 45° angled	3-PCIe x1 sockets + 1-PCIe x4 socket (with 1-lane connected)	4-32-bit PCI Sockets
Full Schematics	Included	Included	Included	Included	Included	Included	Included
VHDL Source Code	Included	Included	Included	NA	Included	Included	Included
Power Monitor/Over-current Protection	Yes	Yes	NA	NA	Yes	Yes, (Independent per slot)	Yes, (Independent per slot)
Hot Swap Support	Yes, drivers for Windows, Linux, Free BSD			-	Yes, drivers for Windows, Linux, Free BSD		
Mechanical Stabilization	Yes	Yes	NA	Yes	NA	Yes	NA
JTAG Access	Yes	Yes	Yes	Yes		Independent per slot	Independent per slot
Other	7ft cable for connection to host computer	Integrated Universal ByteBlaster	Integrated Universal Byte Blaster, Supports both 3.3V and 5V PCI cards, Logic Analyzer header for all PCI signals		Integrated Universal Byte Blaster	7ft cable for connection to host computer	Supports both 3.3V and 5V PCI cards, Logic analyzer header for all PCI signals, 7ft cable for connection to host computer

Cyrod Technologies offers the Amfeltec line of innovative engineering tools to accelerate the development and manufacturing of PCI, PCI Express, and embedded processor based systems.

The Amfeltec line of products was born out of the practical experience of engineers frustrated by traditional PCI Express and embedded processor debugging tools. Amfeltec products surpass traditional tools by offering features that enhance flexibility, durability, and extend use scenarios in both the development/debugging phases and in manufacturing environments.

- Design
- Debug
- Production

## Easy Loader™



- In-circuit programmer for FPGAs, CPLDs, EEPROMs, MCUs or other programmable devices
- Standalone device: once programmed (via USB or parallel port), the eLoader doesn't require a PC connection to operate.
- Easy to use, minimal training required
- Supports JTAG, SPI, I<sup>2</sup>C (1.2V to 5V signalling)
- Powered from the target device from 1.2V to 5V
- Supports all major FPGA/CPLD vendors, Microchip/Silicon Labs MCUs, wide range of I<sup>2</sup>C/SPI-based device programming
- Field upgradeable firmware

## Universal ByteBlaster



- Universal FPGA/ CPLD programmer supporting all major vendors from a single device (Xilinx, Altera, Lattice and other).
- Supports target system signals from 1.2 up to 5V
- Also be used as I<sup>2</sup>C or SPI master

See more innovative products at [www.cyrod.com](http://www.cyrod.com)

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