

PEX-1X

Standard PCI Express x1 signals can be extended to PCI Express x1 connector. It supports over current and voltage protection. Cableless Remote Control makes swapping the DUT instantly without shut down the system via the software control under Windows. Easily and quickly test any PCIe 1X card.

Focus on the PCIe 1X card test solution, Allion designs the PCIe 1X Extender Adapter, **PEC-1X**. PEC-1X extend the PCIe x1 signal to PCIe 1X connector and allows users to plug the PCIe 1X cards like WLAN, TV Tuner on the PC motherboard for testing.

PEC-1X accurate over voltage and current protection circuit can protect the PC and DUT from short and burning. You also can swap the DUT quickly without shut down the system under Windows. The optional control software and DLL (Dynamic Link Library) are for integrating the existence test application and execute the test easily, quickly and automatically. This Extender is especially useful for:

- **QA Test in Manufacturing.**
- **R&D Test and Debug**

Supports External Power Connector/ Switch, Multi Cards and Buzzer Alarm new functions. Simplify operating process and enhance manufacturing.



Features

- **Over Voltage and Current Protection**
- **Hot Swap**
- **DUT Voltage and Current Measurement (NEW)**
- **Cableless Remote Control *1**
- **Remote Control Software & DLL Library (Optional)**
- **PCI-E x1 Support**
- **External Power Supply Connector**
- **3.3V, 12V, 3.3AUX Power LED Indicator**
- **Go / NoGo LED Indicator**
- **Buzzer Alarm**
- **15u PCIe Gold Plate**
- **Multi-Card Operation**

*1: Need SMBus support (Intel 266A and 27DA)

Power Consumption Measurement

PEC-1X build-in current measurement & ADC switch circuit. User can use software to get the accurate +3.3V、+12V voltage and current of DUT via SM Bus. The power consumption can be monitored in any time without connecting any instrument. Reduce the equipment purchase and maintenance cost.

Over Current Protection

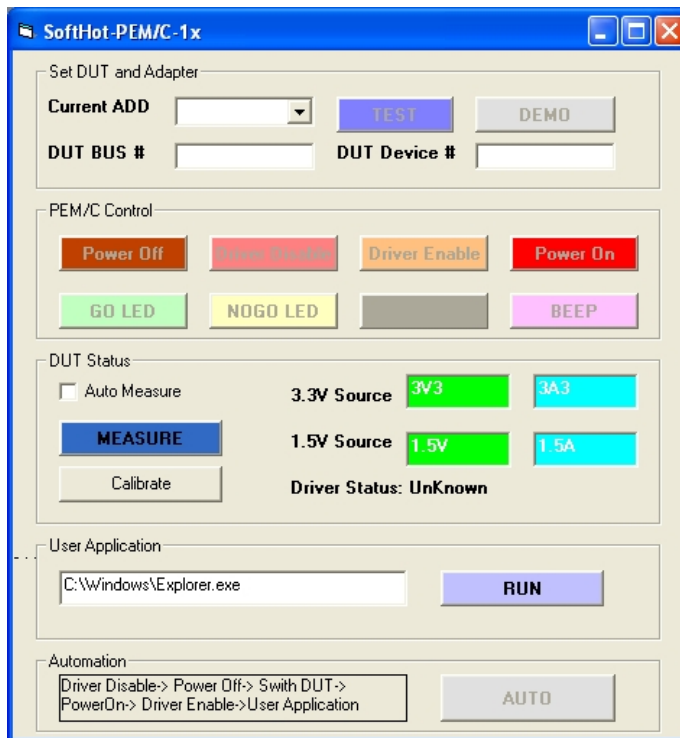
Build-in the Over Current Protection to avoid the damage of over current issue on the DUT and system.

Cable Less Remote Control

In the past, you need to connect a cable to control the adapter with software. Allion get ahead to control the adapter power with software via SM Bus. User can purchase this optional Windows software or library to develop the program to control the DUT power and driver enable/disable without cable.

Software Control

User can optional use the tool of PEX-1X to control the PCIe 1X Bus power and DUT driver enable/disable. This tool can also lunch and execute the test application at the same time with clicking one button. DLL (Dynamic Linking Library) let user can develop or modify the current tool and test application to simplify the tester operating process in VB, VC, BC environment.



Specifications

- PCIe Specification V1.1Compliant
- 12-bit Resolutions for Power Measurement
- +3.3V, +12V, +3.3AUX Power Monitor
- +3.3V, +12V, +3.3AUX External Power Input
- Operating Temperature 0° ~ 55° C

Dimensions

- PEX-1X: 88 * 123 mm

Input Power Rating

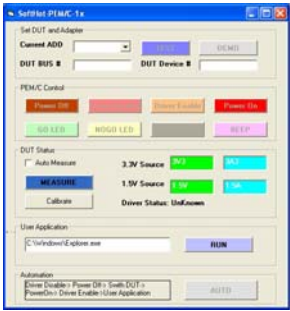


- +3.3V: +3V ~ +3.6V
- +12V: +11.1V ~ +12.9V
- +3.3VAUX: +3V ~ +3.6V

Power Path Resistance

- +3.3V / +12V: TYP 0.055Ω
- +3.3VAUX: TYP 0.13Ω

Differential Bus

- Path Resistance: TYP 4Ω
- Input Capacitance: TYP 2pF @1MHz
- Off Capacitance: TYP 2pF @1MHz
- On Capacitance: TYP 6pF @1MHz
- Crosstalk: -50dB @10MHz
- Off Isolation: -50dB @10MHz

Optional Accessories	
	<p>1. PEX-1SWD: PEX-1X Control Software</p> <p>You can control the device power on/off and enable/disable quickly via this Software for PEC-1X. Your test application also can be enabled by this software. There is also an optional Dynamic Linking Library to develop the test software for improving your test process in manufacturing.</p>
	<p>2. PEX-1RS: Bus Extender</p> <p>High frequency usage will consume the PEX-1X Bus life. Bus Extender can protect and extend the PEX-1X Bus life.</p>
	<p>3. PEM-1LC: 500mm Extend Cable</p> <p>Extend the PEX-1X for 500mm and make your device can be tested out of system and set in the shielding box.</p>

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