ZPCI.2900

Quad PMC Carrier

Ideal Development Platform for Security Processor PMC Modules

33/66 MHz Autodetecting

One 64-bit 66MHz Monarch CPU Slot

Four Standard PMC Slots Total

Standard ATX Form-Factor

The **ZPCI.2900** Quad PMC Carrier from Zephyr Engineering, Inc is a high-performance platform suitable for use with 64-bit 66 MHz PMC form-factor encryption/decryption cards.

- **Monarch CPU slot plus 3 standard IEEE P1386.1 PMC slots**
- **On-board PCI bus arbiter**
- **Dual-speed 33/66 MHz clock generator uses M66EN to automatically select PCI bus speed**
- **Clock speed override provided to force 33 MHz operation**
- **On-board 1 M Byte of socketed FLASH ROM (512K x 16)**
- **On-board ATX power supply control logic and standard ATX power connector**
- **Status LEDs show state of PCI interrupt lines INTA — INTD**
- **ATX I/O area access to one PMC slot front panel**
- **ATX I/O area accessible Serial Port connector for debug port**
- **ATX I/O area accessible jtag emulator port**
- **PCI rev 2.2 compliant**
- **Accepts standard 3.3V or universal PMC modules**
- **Standard motherboard footprint fits standard ATX chassis**

High Performance

The **ZPCI.2900** Quad PMC Carrier supports 64-bit 66 MHz PMC cards, as well as 32-bit 33 MHz units.

ATX Form Factor Gives You System Flexibility

Standard ATX board configuration allows mounting in a variety of off-the-shelf cases from desktop to ruggedized rack-mount.

Accepts standard PMC cards

Install a PrPMC800 Monarch CPU module, a **ZPCI.3900** MPC190 Security Processor module and a **ZPCI.3100** Gigabit Ethernet card and you have a complete security processor system.

Perfect for Software Developers

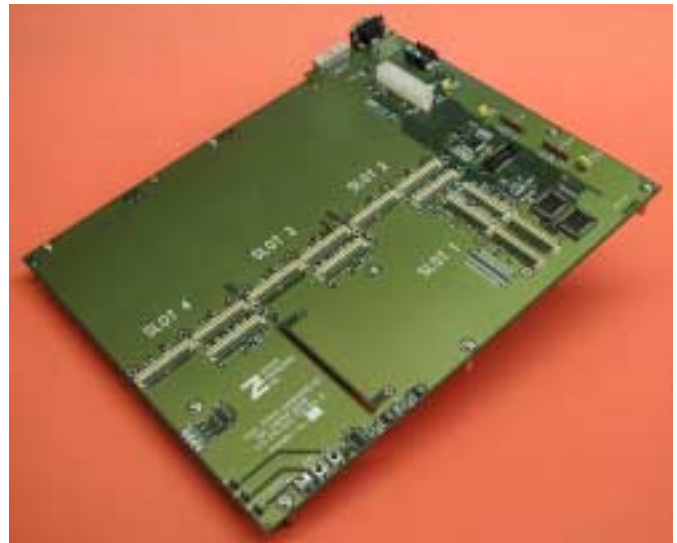The **ZPCI.2900** is your solution to long hardware lead times. Set up your software environment virtually overnight and start development immediately.

ZPCI.2900 Quad PMC Carrier

The **ZPCI.2900** implements four IEEE1386.1 PMC card slots, one of which is a Monarch PMC slot.

Compliance

IEEE P1386.1 PMC Draft Specification
PCI Local Bus Specification, R2.2

Specifications

IEEE P1386.1 64-bit PMC Interface
Bus Width: 64 or 32 bits*
PCI clock: 66 or 33 MHz**
Signaling levels: 3.3V
Slot power: 2W maximum

Input Power Requirements (typical 33 MHz)
+3.3V: 200 mA (base board requirements)
+5.0V: 0 or 1 A (selectable for load balancing)
Uses Standard ATX power supply

Mechanical Dimensions
Standard ATX form factor:
9.6 in (243.8 mm) x 12.0 in (304.8 mm)

On-board Connectors
Four 64-pin connectors for 64 bit Monarch PMC: J11, J12, J13 and J14
Three 64-pin connectors for each of three 64 bit PMC modules: J21, J22, J23; J31, J32, J33; J41, J42, J43
Mictor connector for analyzer connection to arbiter
DB9S for connection to debug port
16-pin header for emulator
Three 2-pin headers for ATX chassis connection: power on/off, power on override, reset

The **ZPCI.900C** Security Processor Development Kit consists of a **ZPCI.2900** Quad PMC Carrier, a Motorola PrPMC800 Monarch CPU, a **ZPCI.3900** MPC190 Security processor PMC module and a ZPCI.3100 Gigabit Ethernet PMC card

Warranty
One year limited warranty.

Ordering Information
Order number
ZPCI.2900   Quad PMC Carrier
ZPCI.900C   Security Processor Development Kit

* Automatic 32/64 bit detection of PMC PCI bus width per PCI specification rev 2.2
** Automatic 66/33 MHz detection of PMC PCI bus speed per PCI specification rev 2.2

Visit us at WWW.ZPCI.COM

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