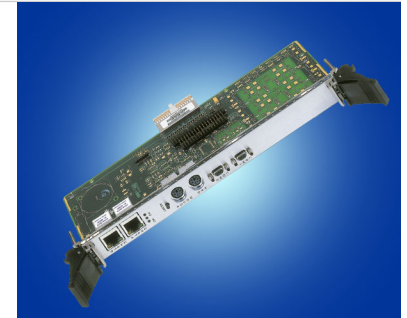


Highlights

- >> Dual RJ-45 Ethernet A and B Channels
- >> Dual (MDSM) DB-9 Serial Connectors
- >> Rear Panel I/O Interfaces
- >> Internal Floppy and IDE Interfaces
- >> Rear Panel Reset Switch
- >> Rear Panel LEDs



This 6U, single-slot rear panel transition board provides rear panel access to the I/O functions of a number of Performance Technologies' single board computers (SBC) - specifically the ZT 5503. The ZT 4806 is designed to function in the rear panel slot of a CompactPCI® system that accepts 6U boards, such as the ZT 5087e 4U General Purpose Platform.

The ZT 4806 allows for efficient troubleshooting and servicing of a system without disruption of the host SBC. All cabling is managed via the transition board, thus enhancing the reliability and availability of the system while running diagnostics or conducting maintenance.

Key Design Elements

Ethernet

The ZT 4806 transitions an SBC's Ethernet channels A and B for rear panel access. Both 10Mbit/s and 100Mbit/s Ethernet protocols are provided through each of two RJ-45 rear panel connectors.

Input/Output

Two serial port connectors, J2 and J4, provide an alternative means of accessing the host SBC's COM1 and COM2 serial ports, respectively. Additionally, the ZT 4806 provides access to the SBC's secondary EIDE channel and floppy controller through internal connectors. A PS/2-style keyboard connector can be used in lieu of the connector on the host processor board. The ZT 4806 also supports a PS/2-style mouse port.

The ZT 4806 features a reset push-button switch (RST) on the faceplate. When RST is pressed, a System Reset is issued to the host SBC to force the processor to restart program execution. Local debounce is not implemented.

Warranty

One year



ZT4806

Rear Panel Transition Board

Ordering Information

>> A single version of the ZT 4806 is available:
ZT 4806A

>> Accessories:
ZT 90248: 9-pin MDSM to 9-pin DB adapter cable

Contact Information

Performance Technologies

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Specifications

Power Req.	Min.	Typ.	Max.
Supply Voltage, V _{cc}	4.75V	5.00V	5.25V
Supply Current, V _{cc} =5.0V	0 mA	-	200 mA

Mechanical

- Measures: 9.2" x 3.2" (233.35mm x 80mm)
- Connector: IEC-1076-4-101 (J1-J5)
- Width: 0.8" (1 slot-4HP)
- Weight: 6.45 oz (182 grams)

Environmental

- Operating Temperature: 0 to +65 C
- Storage Temperature: -40 to +85 C
- Relative Humidity: < 95% at 40 C, non-condensing

Peripherals and I/O interfaces

The ZT 4806 transitions I/O signals from the host SBC for rear panel use via the J3, 95-pin, 2 mm x 2 mm, female connector.

I/O Interface Rear Panel	Compatibility
COM1 Serial Port	9-pin, MDSM
COM2 Serial Port	9-pin, MDSM
PS/2 Keyboard Connector	6-pin, DIN, PS/2
PS/2 Mouse Port Connector	6-pin, DIN, PS/2
Ethernet Connector A	8-pin, RJ-45
Ethernet Connector B (Non-HA systems only)	8-pin, RJ-45

Internal I/O Interface

IDE Interface	40-pin
Floppy Drive Connector	34-pin

Note: To provide proper cooling to the ZT 4806, each unused slot in the chassis should be populated with an air management blade. All rear slots should be populated with a rear filler panel. See the list below for orderable components:

To cover a single rear panel slot, use a filler panel that is 6U x 4HP (horizontal pitch=0.2") (Performance Technologies PN 18299).

To cover six rear panel slots, use a filler plate that is 6U x 24HP (Performance Technologies PN 20434).

To fill a front slot, use an air management blade that is 6U X 4HP (Performance Technologies PN 20456).

To fill a power supply bay, use an air management blade that is 3U X 8HP (Performance Technologies PN 20455).

To fill an SM slot, use a filler panel that is 3U X 4HP (Performance Technologies PN 18309).

Regulatory Compliance

CE Certification

The ZT 4806 meets intent of Directive 89/336/EEC for Electromagnetic Compatibility & Low-Voltage Directive 73/23/EEC for Product Safety. Compliance was demonstrated to the following specifications as listed in the Official Journal of the European Communities:

Safety

- UL/cUL 60950 Safety for Information Technology Equipment
- EN/IEC 60950 Safety for Information Technology Equipment
- CB Report Scheme CB certificate and Report

Emissions Test Regulations

- FCC Part 15, Subpart B
- EN 55022
- CISPR 22
- Bellcore GR-1089

EN 50081-1 Emissions

- GR-1089-CORE Sections 2 and 3
- EN 55022 Class A Radiated
- EN 55022 Power Line Conducted Emissions
- EN 61000-3-2 Power Line Harmonic Emissions
- EN 61000-3-3 Power line Fluctuation and Flicker

EN 55024 Immunity

- GR-1089-CORE Sections 2 and 3
- EN 61000 4-2 Electro-static Discharge (ESD)
- EN 61000 4-3 Radiated Susceptibility
- EN 61000 4-4 Electrical Fast Transient Burst
- EN 61000 4-5 Power Line Surge
- EN 61000 4-6 Frequency Magnetic Fields
- EN 61000 4-11 Voltage dips, Variations & Short Interruptions