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PERFORMANCE TECHNOLOGIES

RTM4807

PICMG® 2.16 Rear Panel Transition Board



Highlights

>> PICMG® 2.16-Compliant

>> Rear Panel Interfaces Include:
- Ethernet Link and Activity
- Status LEDs
- Two Serial Ports
- Keyboard/Mouse, Combination PS/2 Connector
- VGA
- Two USB Connectors

>> Internal Floppy and IDE Interfaces

>> Rear Panel Reset and NMI Switches

>> Rear Panel LEDs (Hot-Swap and IDE Activity)

>> Internal CompactFlash® Interface

This single-slot, 6U board provides rear panel access to the I/O functions of a single board computer (SBC) with RPIO-pin compatibility, such as the CPC5505 SBC. It is also designed to function with other third-party PICMG® 2.16-compliant SBCs. The RTM4807 easily snaps into the rear panel slot of a 6U PICMG 2.16-compliant CompactPCI® system.

The RTM4807 routes all cabling out the back of a system and provides access to a secondary IDE channel, Com1 and 2 serial ports, and a floppy disk drive. It allows for system troubleshooting and servicing without disrupting the processor board, which enhances the reliability and availability of the system, particularly while running diagnostics or conducting maintenance.

Key Design Elements

Ethernet

The RTM4807 provides two rear panel LEDs to monitor Ethernet link and activity status of the host SBC. Signals are routed via RPIO connector J5 to RJ-45 Ethernet connectors J20 (ENET A) and J18 (ENET B). These Ethernet connector LEDs indicate link and activity status only and do not provide connection for Ethernet cables.

Input/Output

The RTM4807 provides two RS-232 serial port connectors and a PS/2-style keyboard/mouse port (requires a 'Y' splitter cable). Rear panel access is provided to the VGA video and USB signals on the host SBC.

Internal Interfaces

An internal IDE channel supports two IDE devices simultaneously or one IDE device when a Type I/II CompactFlash® expansion card is installed. A special 40-pin, 80-conductor cable is necessary for IDE device connection. Power for the IDE device can be drawn from an onboard power connector at J8 when supplemental power is supplied to power connector J9. Two LEDs on the front plate indicate hot-swap and IDE device activity. The hot-swap LED receives information from the baseboard management controller (BMC) on the SBC and indicates when it is safe to remove the rear panel board. The second LED indicates activity on the IDE interface and/or the CompactFlash expansion card.

The CompactFlash is selectable as a master or slave by using an onboard switch. A floppy drive connector and 4-pin floppy power connector (J8) for external media are available on the internal portion of the board.

Switch Options

The RTM4807 features two push-button switches on the face plate, one to reset the host SBC and one to issue a non-maskable interrupt (NMI). A hot-swap ejector switch is incorporated into the lower ejector mechanism to notify the SBC of the necessity to shut down, should the RTM4807 need to be removed.

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RTM4807

Technical Specifications

- CompactPCI core specification, PICMG 2.0 R3.0
- CompactPCI hot-swap specification, PICMG 2.1 R2.0
- CompactPCI system management, PICMG 2.9 R1.0
- CompactPCI packet switching backplane specification, PICMG 2.16 R1.0
- Designed to be NEBS-compliant

Power Requirements	Minimum	Typical	Maximum
Supply Voltage, VCC	4.75 V	5.00 V	5.25 V
Supply Current, VCC = 5.0 V	0 mA	—	2 A†
VCC3	3.135 V	3.3 V	3.465 V
Current	0 mA	—	200 mA
12 V DC on J8	11.4 V	12.0 V	12.6 V
Current	—	6 A‡	—

†To spin up two 2.5-in. hard drives simultaneously.

‡Fuse protected.

Mechanical

- Measures: 233.35 mm x 80 mm (9.2 in. x 3.2 in.)
- Width: 1 slot, 4HP, 20.3 mm (0.8 in.)
- Weight: 202 grams (7.13 oz)
- Connector: IEC-1076-4-101 (J5)

Environmental

- Operating Temperature: 0 to 55°C (32 to 131°F)
- Storage Temperature: -40 to 85°C (-40 to 185°F)
- Relative Humidity: < 95% at 40°C (104°F), non-condensing

I/O Interface	Compatibility
COM1 Serial Port	9-Pin D-shell, 16550
COM2 Serial Port	9-pin D-shell, 16550
PS/2 Keyboard/Mouse Connector	6-pin, DIN, PS/2
Ethernet Connector A	8-pin, RJ-45, with integral LEDs
Ethernet Connector B	8-pin, RJ-45, with integral LEDs
VGA	15-pin D-shell
USB 0	4-pin USB, Type A
USB 1	4-pin USB, Type A
Internal I/O Interface	
CompactFlash	Type I/II expansion cards
Secondary IDE Interface	40-pin Ultra DMA/33

Peripherals and I/O Interfaces

The RTM4807 transitions I/O signals from the processor board for rear panel use via the J5, 95-pin, 2 mm x 2 mm, female connector.

Note: To provide proper cooling to the RTM4808, 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.

Regulatory Compliance

CE Certification

The RTM4807 Rear Panel Transition Board meets intent of Directive 89/336/EEC for Electromagnetic Compatibility and 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 and Short Interruptions

Warranty

One year.

Ordering Information

>> **PT-RTM4807-12030**

Custom configuration options may be available. Contact sales@pt.com for more information.

RoHS • WEEE COMPLIANT

Contact Information

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