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FORCE COMPUTERS
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ACC/RTB8260/DS1

Installation Guide

P / N 212387 Revision AC
August 2001

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Using This Manual

This Installation Guide is intended for users qualified in electronics or electrical engineering. Users must have a working understanding of Peripheral Component Interconnect (PCI), Compact Peripheral Component Interconnect (CPCI) and telecommunications.

Other Sources of Information

For further information refer to the following related documents:

- PPC / PowerCoreCPCI-6750 Installation Guide (P / N 211345) or Reference Guide (P / N 211344)
- PMC-8260 / DS1 Installation Guide (P / N 212125) or Reference Guide (P / N 212124)

Style Conventions

Notation	Description
Bold	Character format used to emphasize a word
Italics	Character format for references and for table and figure descriptions

Revision History

SAP No.	Revision	Date	Description
212387	AA	July 2000	Preliminary Installation Guide

SAP No.	Revision	Date	Description
212387	AB	November 2000	First Print of Installation Guide Chapter Safety Notes: Section EMC revised Chapter Installation: Section Consumer Information and FCC Requirements for the ACC/RTB8260/DS1 added Section General: Renamed Introduction, Information on E1/T1/J1 line interface support added Editorial changes
212387	AC	August 2001	Added “Sicherheitshinweise” section on page -xiii

Safety Instructions

The following two types of safety instructions appear in this manual. Be sure to always read and follow the safety notes of a section first – before acting as documented in the other parts of the section.

Caution



Possibly dangerous situation: no injuries to people but damage to objects possible

Note: No danger encountered. Pay attention to important information marked using this layout.



Safety Notes

This section provides safety precautions to follow when installing, operating, and maintaining the RTB8260/DS1. For your protection, follow all warnings and instructions found in the following text.

This Installation Guide provides the necessary information to install and handle the RTB8260/DS1. As the product is complex and its usage manifold, we do not guarantee that the given information is complete. In case you need additional information, ask your Force Computers representative.

The RTB8260/DS1 has been designed to meet the standard industrial safety requirements. It must not be used except in its specific area of office telecommunication industry and industrial control.

Only personnel trained by Force Computers or persons qualified in electronics or electrical engineering are authorized to install, uninstall or maintain the RTB8260/DS1. The information given in this manual is meant to complete the knowledge of a specialist and must not be taken as replacement for qualified personnel.

EMC

The board has been tested in a Standard Force Computers System and found to comply with the limits for a Class A digital device in this system, pursuant to part 15 of the FCC Rules, EN 55022 Class A respectively.

These limits are designed to provide reasonable protection against harmful interference when the system is operated in a commercial environment.

The board generates, uses and can radiate radio frequency energy and, if not installed properly and used in accordance with this Installation Guide, may cause harmful interference to radio communications. Operating the system in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.



Installation

Electrostatic discharge and incorrect board installation and removal can damage circuits or shorten their life. Therefore:

- **Before installing and uninstalling an RTB (rear transition board), read this Installation Guide.**
- **The RTB8260/DS1 may be connected only to TNV-1 circuits (Telecommunication Network Voltage-1 circuits) as defined in EN 60950.**
- **Only install and use the RTB8260/DS1 with carrier boards especially designed for the RTB8260/DS1. Otherwise, the RTB and the carrier board may be destroyed.**
- **In case of delivery as part of a system, never change the cabling of the RTB unless this is explicitely stated in the system's documentation.**
- **Before touching integrated circuits, ensure that you are working in an ESD-safe environment.**
- **When plugging in the RTB or removing it, do not press on the front panel but use the handles.**
- **Before removing or plugging in the RTB, turn off system power.**
- **Make sure to use the rear slot position only.**

Connecting the Peripherals

The serial debug ports PMC1 and PMC2 are directly connected to the serial ports of the corresponding PMC-8260/DS1-R (or -N) module. Therefore, only one serial cable may be plugged, either into the PMC-8260/DS1-R (or -N) or the RTB8260/DS1 front panel connector.

The debug port BASE is directly connected to the serial interface COM1 of the PPC/PowerCoreCPCI-6750 Rev2.x. Therefore, only one serial cable may be plugged, either into the front panel COM1 connector of the PPC/PowerCoreCPCI-6750 Rev2.x or into the front panel debug port BASE of the RTB8260/DS1.

Do not plug line interface cables into the TPE (Twisted Pair Ethernet) connector labeled ETH and do not plug TPE cables into the line interface RJ-45 connectors.



Operation

When operating the board in areas of strong electromagnetic radiation ensure that the board is bolted on the CompactPCI rack and shielded by enclosure.

Make sure that contacts and cables of the board cannot be touched while the board is operating.

Protect your Environment

Always dispose of used RTBs according to your country's legislation.

RJ-45 Connector

There are RJ-45 connectors available on the RTB. Take into account that the RJ-45 connector type is used for telephone connectors and for twisted pair Ethernet (TPE) connectors. Note that mismatching these two connectors may destroy your telephone equipment as well as your RTB8260/DS1.

Therefore:

- **Do not plug TPE cables into the line interface RJ45 connectors and do not plug line interface cables into the TPE connector labeled ETH.**
- **Make sure that TPE connectors near your working area are clearly marked as network connectors.**
- **Make sure that TPE bushing of the system is connected only to safety extra low voltage (SELV) circuits.**
- **Verify that the length of an electric cable connected to a TPE bushing does not exceed 100 m.**
- **If in doubt, ask your system administrator.**





Sicherheitshinweise

Dieser Abschnitt enthält Sicherheitshinweise, welche bei der Installation, dem Betrieb und der Wartung des ACC/RTB8260/DS1 zu beachten sind. Beachten Sie zu Ihrem Schutz alle folgenden Warnhinweise und Anleitungen.

Dieses Installationshandbuch enthält alle notwendigen Informationen zur Installation und zum Betrieb des ACC/RTB8260/DS1. Da es sich um ein komplexes Produkt mit einer aufwendigen Bedienung handelt, kann keine Garantie dafür übernommen werden, dass die enthaltenen Informationen vollständig sind. Für weitere Informationen wenden Sie sich bitte an Ihren Vertreter der Firma Force Computers.

Das ACC/RTB8260/DS1 erfüllt die gültigen industriellen Sicherheitsanforderungen. Dieses Produkt darf ausschließlich für Anwendungen innerhalb der Telekommunikationsindustrie und der industriellen Steuerung verwendet werden.

Lediglich von Force Computers eingewiesene oder im Bereich Elektrotechnik oder Elektronik qualifizierte Personen sind zur Installation, zum Betrieb und zur Wartung dieses Produktes befugt. Die in dieser Dokumentation enthaltenen Informationen sollen lediglich als Hilfestellung für entsprechend qualifiziertes Fachpersonal dienen. Keinesfalls können sie dieses ersetzen.

EMV

Das Board wurde in einem Force Computers Standardsystem getestet und entspricht den Grenzen eines Klasse-A-Produktes gemäß Abschnitt 15 der FCC-Richtlinien, insbesondere EN 55022 Klasse A.

Diese Grenzen sind dafür vorgesehen, einen vernünftigen Schutz gegen störende Einflüsse bei einem Betrieb in einer kommerziellen Umgebung zu gewährleisten.

Das Board erzeugt elektromagnetische Strahlung. Wird das System unsachgemäß installiert oder in anderer Weise als in diesem Installationshandbuch beschrieben betrieben, kann es in der Umgebung von Rundfunksendern und in Wohngegenden zu Störungen kommen. In diesem Fall ist der Benutzer verpflichtet, entstehende Störungen auf seine Kosten beheben zu lassen und die Kosten von Messungen selbst zu tragen.



Werden Boards in offene Systeme eingebaut, müssen freie Steckplätze mit einer Blende abgeschirmt werden.

Um eine ausreichende Abschirmung zu gewährleisten, darf das Board nur mit einer Blindblende oder mit einer installierten PCMCIA-Karte betrieben werden.

Installation

Elektrostatische Entladung und unsachgemäße Installation und Ausbau des Boards kann Schaltkreise beschädigen oder ihre Lebensdauer verkürzen. Deswegen sind folgende Punkte vor der Installation zu überprüfen:

- **Lesen Sie vor Einbau oder Ausbau des RTBs dieses Benutzerhandbuch.**
- **Das ACC/RTB8260/DS1 darf gemäß EN 60950 nur an TNV-1 Schaltkreise (Telecommunication Network Voltage-1 Schaltkreise) angeschlossen werden.**
- **Installieren Sie das ACC/RTB8260/DS1 nur zusammen mit Träger-Boards, die speziell für das ACC/RTB8260/DS1 entwickelt wurden, um Schäden an Träger-Board und ACC/RTB8260/DS1 zu vermeiden.**
- **Falls das ACC/RTB8260/DS1 als Teil eines Systems geliefert wird, tauschen Sie nie die Verkabelungen des RTBs, es sei denn, die Systemdokumentation weist ausdrücklich darauf hin.**
- **Bevor Sie integrierte Schaltkreise berühren, vergewissern Sie sich, dass Sie in einem ESD-geschützten Bereich arbeiten.**
- **Drücken Sie beim Einbau oder Ausbau des RTBs nicht auf das Front Panel, sondern benutzen Sie die Griffe.**
- **Schalten Sie vor Einbau oder Ausbau des RTBs den Strom ab.**
- **Vergewissern Sie sich, dass das RTB in einen hinteren Steckplatz gesteckt wird.**

Anschluß der Periphäriegeräte

Die seriellen Debug Ports PMC1 und PMC2 sind direkt mit den seriellen Ports des entsprechenden PMC-8260/DS1-R (oder -N) Moduls verbunden. Daher kann nur ein serielles Kabel angesteckt werden, entweder an den Stecker des PMC-8260/DS1-r (oder -N) oder an den ACC/RTB8260/DS1 Front Panel-Stecker.



Der Debug Port BASE ist direkt mit der seriellen Schnittstelle COM1 des PPC/PowerCoreCPCI-6750 Rev. 2.x verbunden. Daher kann nur ein serielles Kabel eingesteckt werden, entweder in den Front Panel COM1 Stecker des PPC/PowerCoreCPCI-6750 Rev. 2.x oder in den Front Panel Debug Port BASE des ACC/RTB8260/DS1.

Stecken Sie keine Line Interface Kabel in dem TPE (Twisted Pair Ethernet) Stecker ETH, und stecken Sie keine TPE Kabel in die Line Interface RJ-45 Stecker.

Betrieb

Wenn das Board in Gebieten mit starker elektromagnetischer Strahlung betrieben wird, stellen Sie sicher, dass das Board auf dem Compact PCI Rack verschraubt ist und mit einem Gehäuse geschützt ist.

Es ist sicherzustellen, dass Anschlüsse und Kabel des Boards während des Betriebs nicht versehentlich berührt werden können.

RJ-45 Stecker

RJ-45 Stecker werden sowohl für Telefonanschlüsse als auch für Twisted-pair-Ethernet (TPE) verwendet. Die Verwechslung solcher Anschlüsse kann sowohl das Telefonsystem als auch das Board zerstören. Daher:

- **TPE-Anschlüsse in der Nähe Ihres Arbeitsplatzes müssen deutlich als Netzwerkanschlüsse gekennzeichnet sein.**
- **An TPE-Buchsen dürfen nur SELV-Kreise angeschlossen werden (Sicherheitskleinspannungsstromkreise).**
- **Die Länge der an einer TPE-Buchse angeschlossenen Leitung darf nicht mehr als 100 Meter betragen.**

Umweltschutz

Alte Batterien und/oder Boards oder Systeme müssen stets gemäß der in Ihrem Land gültigen Gesetzgebung entsorgt werden.



1

Installation

Introduction

The RTB8260/DS1 is an RTB (rear transition board) which provides easy access to I/O signals of PPC/PowerCoreCPCI-6750 Rev2.x boards equipped with one or two PMC-8260/DS1-R (or -N) modules. The I/O signals are available via the CompactPCI backplane at the RJ5 connector. The RTB8260/DS1 supports E1/T1/J1 line interfaces and additionally provides the protection circuitry necessary for long-haul T1 line interface support (which is not offered by the PMC-8260/DS1 itself).

The RTB8260/DS1 is delivered as part of the accessory kit ACC/RTB8260/DS1compiled for CPU boards or as part of a system design:

- If delivered as part of a **system design**, the RTB is already installed in the system. For information on the system connectors available for user-defined system configuration refer to the respective *System's Guide*. The cabling of all other connectors of the RTB must remain as configured at system delivery.
- If delivered as part of an **accessory kit**, cables to be used with the RTB or with connectors on the CPU board's front panel are usually shipped with the accessory kit.

  The accessory kit ACC/RTB8260/DS1 contains:

  – Rear transition board RTB8260/DS1
  – This Installation Guide
  – One adapter for each E1/T1/J1 line
    This adapter is used to convert the telecom interface from user-side to network-side.

  Check that the items listed were shipped together with the Accessory Kit.

Consumer Information and FCC Requirements for the ACC/RTB8260/DS1

This equipment complies with Part 68 of the FCC rules. On the equipment is a label that contains, among other information, the FCC registration for this equipment. If requested, provide information to your telephone company.

If your RTB8260/DS1 causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice is not practical, you will be notified as soon as possible. You will be advised of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper operation of your equipment. If they do, you will be given advance notice so as to give you an opportunity to maintain uninterrupted service.

If you experience trouble with the RTB8260/DS1, contact your local Force Computers representative for repair and warranty information. The telephone company may ask you to disconnect this equipment from the network until the problem has been corrected or you are sure that the equipment is not malfunctioning.

There are no repairs that can be made by the customer to the RTB8260/DS1.

Power Requirements

The typical power consumption of the RTB8260 / DS1 at +3.3V is 500mA.

Plugging in the Board

Caution



Before plugging in the board, observe the following:

- **Only install and use the RTB8260/DS1 with carrier boards especially designed for the RTB8260/DS1. Otherwise, the RTB and the carrier board may be destroyed.**
- **The RTB8260/DS1 may only be connected to TNV-1 circuits (Telecommunication Network Voltage-1 circuits) as defined in EN 60950.**
- **For installation of the RTB8260/DS1, system power must always be turned off.**
- **Make sure to use the rear slot position only.**
- **Before touching integrated circuits, make sure that you are working in an ESD-safe environment.**

The RJ5 connector of the RTB8260 / DS1 fits to the J5 CompactPCI connector of the carrier board. The pinout is shown in the following figure:

A	B	C		D	E
PMC2_TX+F3	PMC2_TX+F1	n.c.	22	TXD_PMC2	n.c.
PMC2_TX-F3	PMC2_TX-F1	n.c.	21	RXD_PMC2	n.c
PMC2_RX+F3	PMC2_RX+F1	n.c.	20	TXD_PMC1	n.c
PMC2_RX-F3	PMC2_RX-F1	n.c.	19	RXD_PMC1	n.c
PMC2_TX+F4	PMC2_TX+F2	BASE_DCD	18	BASE_TXD	n.c
PMC2_TX-F4	PMC2_TX-F2	BASE_RTS	17	BASE_RXD	n.c
PMC2_RX+F4	PMC2_RX+F2	BASE_CTS	16	n.c.	n.c
PMC2_RX-F4	PMC2_RX-F2	BASE_DTR	15	n.c.	n.c
PMC1_TX+F3	PMC1_TX+F1	n.c.	14	n.c.	n.c
PMC1_TX-F3	PMC1_TX-F1	n.c.	13	n.c.	n.c
PMC1_RX+F3	PMC1_RX+F1	n.c.	12	n.c.	n.c
PMC1_RX-F3	PMC1_RX-F1	n.c.	11	n.c.	n.c
PMC1_TX+F4	PMC1_TX+F2	n.c.	10	n.c.	n.c
PMC1_TX-F4	PMC1_TX-F2	n.c.	9	n.c.	n.c
PMC1_RX+F4	PMC1_RX+F2	ETH_10M_RX+	8	ETH_10M_TX+	n.c
PMC1_RX-F4	PMC1_RX-F2	ETH_10M_RX-	7	ETH_10M_TX-	n.c
n.c.	GND	+ 5 Volt	6	GND	n.c
n.c.	GND	+ 5 Volt	5	GND	+ 3.3 Volt
n.c.	n.c.	n.c.	4	n.c.	n.c
n.c.	n.c.	n.c.	3	n.c.	n.c
n.c.	n.c.	n.c.	2	n.c.	n.c
n.c.	n.c.	reserved	1	n.c.	n.cc

Figure 1: *RJ5 Connector Pinout*

Installation Procedure

In order to install the RTB8260 / DS1, proceed as follows:

1. Check all installed boards for steps that have to be taken before turning off power
2. Take those steps
3. Turn off power

Note: When inserting the rear transition board, make sure not to bend any pins.

---

4. Insert RTB8260 / DS1 from rear into same slot as carrier board

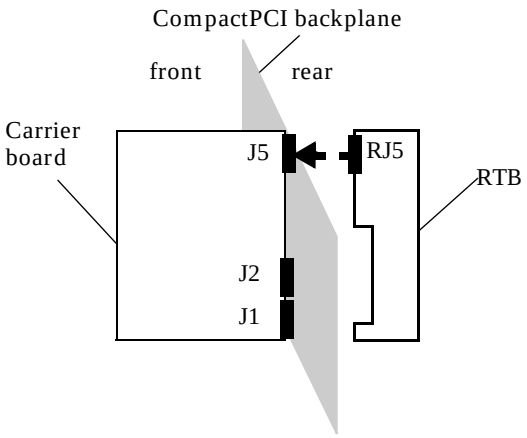


Figure 2: *RTB8260/DS1 Installation*

5. Press handles so that board is completely plugged in CompactPCI connectors
6. Fasten two front-panel screws to fix RTB8260 / DS1 at rack frame

Removal Procedure

In order to remove the RTB8260/DS1, proceed as follows:

1. Check all installed boards for steps that have to be taken before turning off power
2. Take those steps
3. Turn off power
4. Unfasten two front-panel screws until RTB is detached from rack frame
5. Disconnect RTB from backplane by opening handles of front panel
6. Remove RTB8260/DS1 from slot rails

Interconnection Between the PMC Modules and the RTB8260/DS1

The diagram in figure 3 on page 1-9 shows the assignment of telecom interfaces, provided by the PMC modules PMC-8260/DS1-R (or -N) for the RTB8260/DS1.

The telecom interfaces (E1/T1/J1 lines) of the upper PMC module (PMC 2) are connected to RTB8260/DS1 RJ-45 connectors labeled 2-x (with x=1, 2, 3, or 4 representing the corresponding Framer/Line of the PMC module). The telecom interfaces (E1/T1/J1 lines) of the lower PMC module (PMC 1) are connected to RTB8260/DS1 RJ-45 connectors labeled 1-x (with x=1, 2, 3, or 4 representing the corresponding Framer/Line of the PMC module). In figure 3 the PMC port connections are represented by continued lines.

The serial interface of the PMC module 1 (PMC 1) is connected to debug port PMC1 and the serial interface of the PMC module 2 (PMC 2) is connected to debug port PMC2. In figure 3 the PMC debug port connections are represented by dashed lines.

The serial port COM1 of carrier board PPC/PowerCoreCPCI-6750 Rev2.x is available at debug port BASE of the RTB. An additional 10-Mbit-Ethernet interface is provided by the PPC/PowerCoreCPCI-6750 Rev2.x on the Ethernet connector labeled ETH.

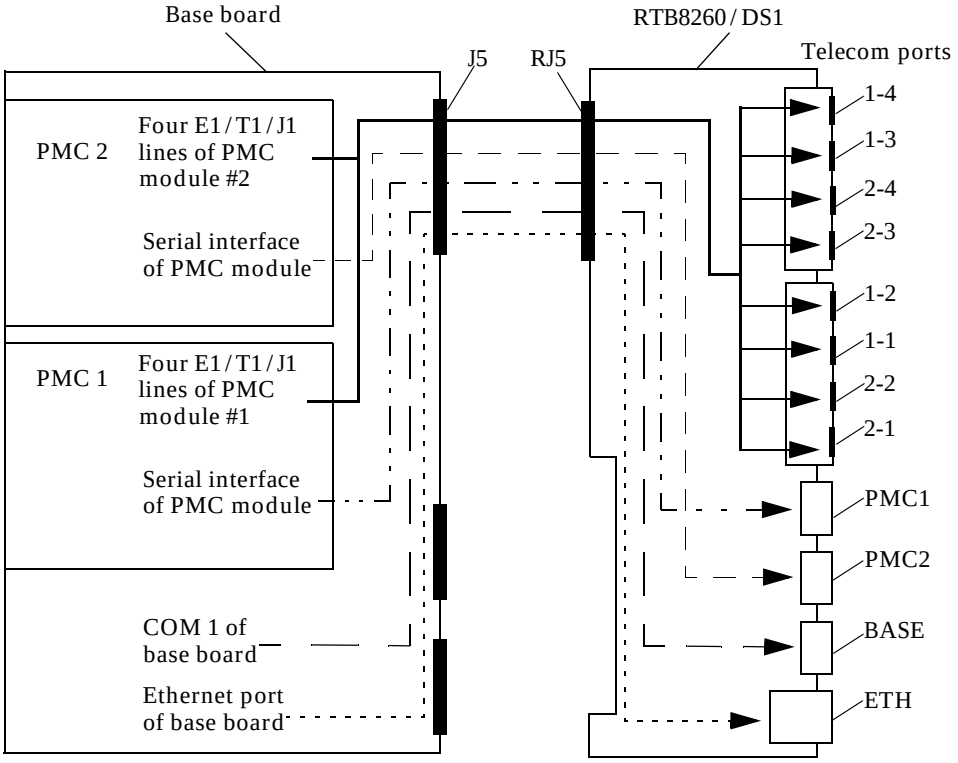


Figure 3: *Interconnection of the PMC Modules and the RTB8260/DS1*

Note: The meaning of the telecom port labels used in the figure above and on the front panel is as follows: The first number represents the PMC module number and the second one represents the Framer/Line number.

Connecting the Peripherals

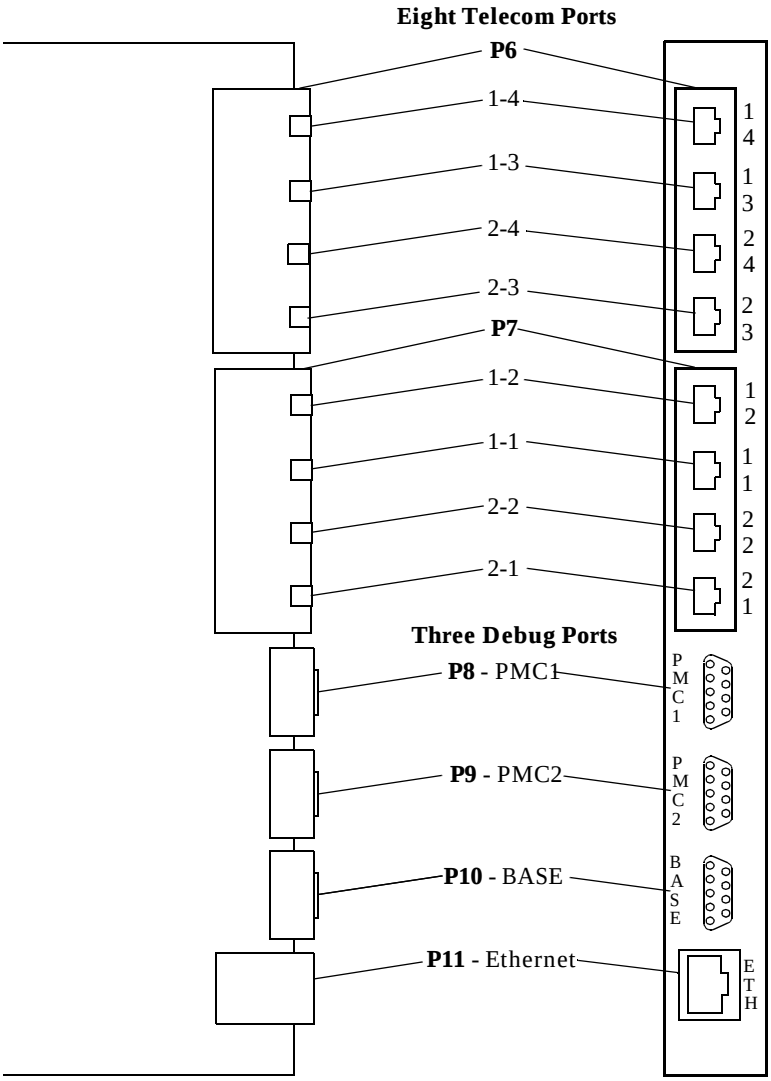


Figure 4: *Schematic Front Panel Overview*

Telecom Ports

Caution



Do not plug TPE (Twisted Pair Ethernet) cables into the line interface RJ-45 connectors.

The eight E1/T1/J1 telecom ports (P6 and P7/Ports 1-1..1-4/2-1..2-4) are configured as user-side.

The meaning of the telecom port labels used on the front panel is as follows: The first number represents the PMC module number and the second one represents the Framer/Line number.

The connector pinout is shown in the following figure:

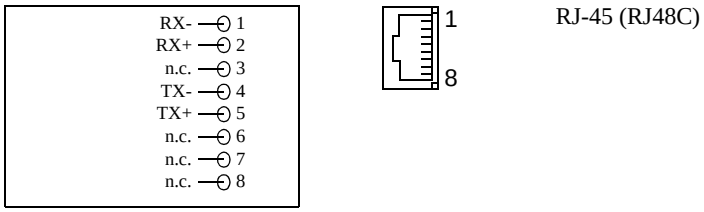


Figure 5: *P6 and P7/Ports 1-1..1-4/2-1..2-4 Connector Pinout*

The connector pinout of the adapter used to convert the E1/T1/J1 line connector from the default user-side pinning to network-side pinning can be seen below:

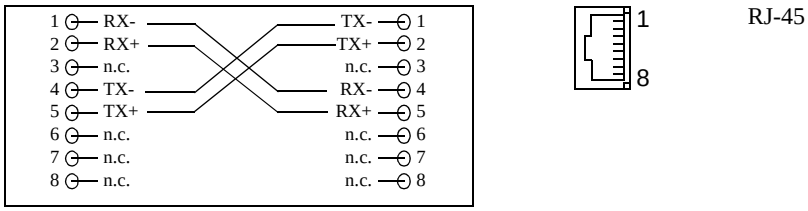


Figure 6: *Adapter Connector Pinout*

Debug Ports

The RTB8260 / DS1 offers:

- Two serial debug ports P8 and P9 (labeled PMC1 and PMC2) for the PMC-8260 / DS1-R (or -N) modules installed on the PPC / PowerCoreCPCI-6750 Rev2.x carrier board
- One serial debug port P10 (labeled BASE) connecting the carrier board's (PPC / PowerCoreCPCI-6750 Rev2.x) serial debug port COM1 to the rear transition board front panel

The serial debug ports PMC1 and PMC2 are directly connected to the serial ports of the corresponding PMC-8260 / DS1-R (or -N) module.

Caution



Therefore, only one serial cable may be plugged, either into the PMC-8260/DS1-R (or -N) or the RTB8260/DS1 front-panel connector.

The debug port BASE is directly connected to the serial interface COM1 of the PPC / PowerCoreCPCI-6750 Rev2.x.

Caution



Therefore, only one serial cable may be plugged, either into the front panel COM1 connector of the PPC/PowerCoreCPCI-6750 Rev2.x or into the front panel debug port BASE of the RTB8260/DS1.

The connector pinouts are shown in the following figures:

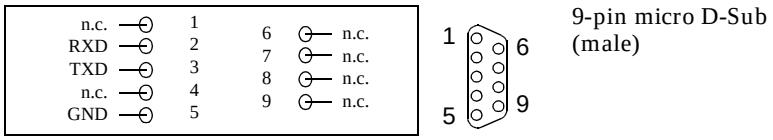


Figure 7: *P8 and P9 Connector Pinout*

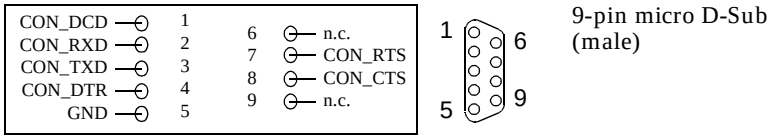


Figure 8: *P10 Connector Pinout*

Ethernet Port

Caution



Do not plug line interface cables into the TPE connector labeled ETH.

The RTB8260/DS1 offers one 10-Mbit-Ethernet port (P11) which is directly connected to the carrier board's (PPC/PowerCoreCPCI-6750 Rev2.x) 10-Mbit-Ethernet interface.

For further information on how to use this Ethernet port, refer to the *Reference Guide* of the carrier board.

The connector pinout is shown in the following figure:

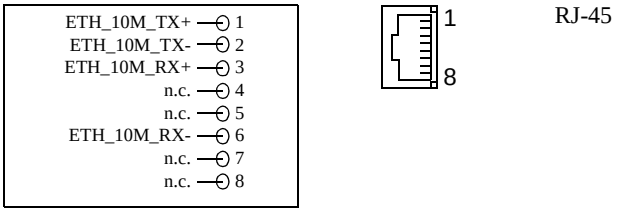


Figure 9: *P11 Connector Pinout*

Product Error Report

Product:	Serial No.:
Date Of Purchase:	Originator:
Company:	Point Of Contact:
Tel.:	Ext.:
Address:	
Present Date:	
Affected Product: ❑ Hardware ❑ Software ❑ Systems	Affected Documentation: ❑ Hardware ❑ Software ❑ Systems
Error Description:	

This Area to Be Completed by Force Computers:

Date:

PR#:

Responsible Dept.: ❑ Marketing ❑ Production

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