

## R-875 TetraNode Multipurpose Interface

### General Description

The TetraNode Multipurpose Interface (TMI) provides a compact and cost-effective solution for building small and/or transportable TetraNode Industrial systems when up to two interfaces to telephony or analogue base station transceivers are required.

The TetraNode Multipurpose Interface consists of a front card and a rear I/O card in a 6U high CompactPCI form factor, occupies one slot in a CompactPCI chassis and comes with an integrated 8-port Ethernet switch.

### Configuration Details

For the telephony interfaces, the available options are ISDN with the ISDN Telephony Interface (ITI), POTS with the Analogue Telephony Interface (ATI) or E&M with the E&M Interface (EMI).

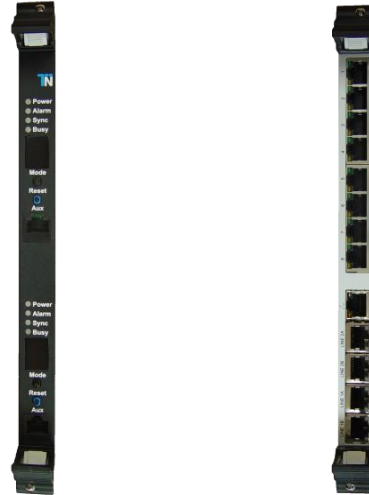
For the base station transceiver interface, the available options are conventional analogue radio or MPT-1327 base station transceivers. Both options use the Base Station Interface (BSI).

All interfaces provide the same functionality as the equivalent interface cards in the TetraNode Expansion Platform, namely the TetraNode Expansion Platform - ISDN Telephony Interface (TEP-ITI), the Analogue Telephony Interface (TEP-ATI), the E&M Interface (TEPEMI) and the TetraNode Expansion Platform – Base Station Interface (TEP-BSI).

The front card of the TetraNode Multipurpose Interface provides for each of the selected interfaces a diagnostic display, a status LED, a mode switch and a reset button. These have exactly the same functionality as the equivalent interface cards in the TetraNode Expansion Platform.

The rear I/O card of the TetraNode Multipurpose Interface provides for each of the selected interfaces a pair of RJ45 ports for connectivity, one LAN port for the TetraNode Multipurpose Interface itself and 8 Ethernet ports of the integrated Ethernet switch.

In case of using more than two TETRA Base Station Transceivers, it is recommended using an external managed Ethernet switch supporting Quality-of-Service.



Front Card

Rear card

### Key Features

- Any mix of two add-on interfaces to telephony or
- analogue base station transceivers
- Telephony interfaces to ISDN, POTS and E&M
- Base station interface to conventional radio and
- MPT-1327 trunked radio
- Plug and Play
- Configuration from the Network Management System
- Integrated 8-port Ethernet switch

## Technical specifications

### Compliance

CompactPCI PICMG 2.0 (R3.0)  
PCI core PCI 2.1  
EMC compliance EN 300 386

### Ethernet interface

Rear panel connector RJ45  
Physical interface Ethernet  
Protocol TNSP over IP  
Line speed 64  
Clock source Internal / External

### Ethernet switch

Rear panel connector 8x RJ45  
Physical interface un-managed 10/100baseT

### Interface connectivity

Rear panel connector 2x RJ45 per interface  
On-board interfaces 2  
Interface options ITI, ATI, EMI or BSI

### Mechanical TetraNode Multipurpose Interface

Dimensions (W x H x D) 20.3 x 233.6 x 165 mm  
Weight 370 gram

### Mechanical TetraNode Multipurpose Interface-Rear

Ethernet Interface  
Dimensions (W x H x D) 20.3 x 233.6 x 85 mm  
Weight 250 gram

### Environmental

Operating temperature 0 to +60 °C  
Storage temperature -40 to +85 °C  
Relative humidity < 95% at +40 °C  
non-condensing

## Ordering specifications

### Deliverable system

- R-875 system
  - S-875F Front card
  - S-875R Rear card

### Accessories

- N.a.

### System expansion

The 2 free front slots can be used for the following functions .

- R-830 TEP Synchronous Data Interface (TEP-SDI)
- R-832 TEP Co-directional Data Interface (TEP-CDI)
- R-833 TEP Analogue Telephone Interface (TEP-ATI)
- R-835 TEP ISDN Telephone Interface (TEP-ITI)
- R-837 TEP ISDN Data Interface (TEP-IDI)
- R-838 TEP E&M Interface (TEP-EMI)
- R-839 TEP Base Station Interface (TEP-BSI)
- R-840 TEP E1 Data Interface (TEP-EDI)

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# TetraNode Mission Critical Communications