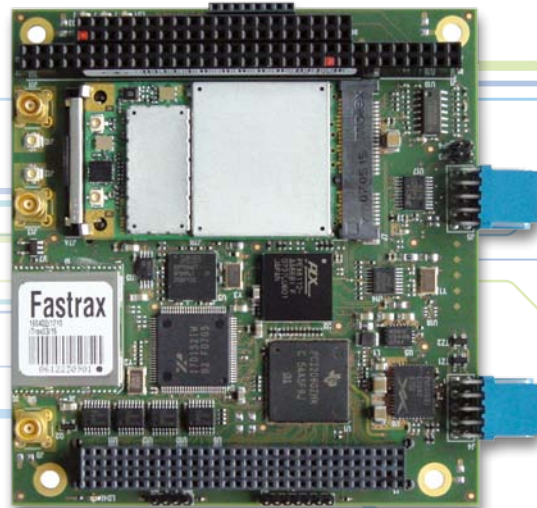


COM-1480



FEATURES

General Features:

- PC/104-Plus Version 2.0 compliant architecture
- PCI Express MiniCard module with HSDPA/UMTS/EDGE support
- Supports third generation (3G) digital cellular standards
- Optional interface for using an external SIM card
- Tri-band UMTS/HSDPA (up to 7.2 Mbps downlink) and quad band EDGE/GPRS/GSM (up to 216 kbps downlink)
- 12-channel GPS receiver
- Analog audio interface port
- MCX antenna connectors
- Antenna starter kits available:
 - ACS-9110-01 (5-band HSDPA antenna kit)
Refer to Technical Datasheet Td0033
 - ACS-9111-00 (GPS antenna kit)
Refer to Technical Datasheet Td0006

RoHS:

- Fully RoHS (2002/95/CE) Compliant.

Supported Operating Systems:

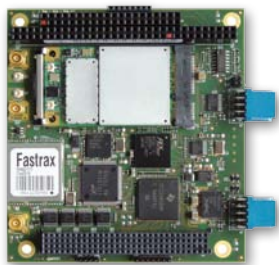
- Windows CE®
- Windows XP Embedded®
- Linux®

The Eurotech COM-1480 is a highly integrated low power PC/104-Plus board with advanced wireless communication technologies and is the ideal choice for a wide spectrum of mobile applications.

It supports a multimode Tri-band HSDPA/UMTS engine with data rates of up to 7.2 Mbps, in conjunction with a quad-band EDGE/GSM/GPRS connectivity technology with data rates of up to 216 kbps. It also integrates a low power 12-channel high-accuracy GPS receiver.

A standard SIM-card can be installed onboard using a locking cardholder or can be connected via an optional external SIM card interface.

The COM-1480 is fully compliant with the 2002/95/CE (RoHS) directive concerning the restriction on the use of certain Hazardous Substances.



Main GPS Features

Fastrax iTrax03 12-channel low power GPS receiver

L1 frequency, C/A code (SPS)

Update rate: 1fix/s (user configurable up to 3 Hz)

Accuracy:

- Position: 1.2m (CEP95)
- Velocity: 0.1m/s
- Time: 20ns rms (static mode)

Reacquisition: 100ms (typical)

Tracking sensitivity: -156 dBm

Support for +3.3/5V active & passive external antennas

Protocols: NMEA-0183 and proprietary iTalk™ binary protocol

Main HSDPA/UMTS/EDGE Features

HSDPA/UMTS section

TRI-BAND UMTS/HSDPA: 850/1900/2100 MHz

- Downlink up to 7.2 Mbps
- Uplink link up to 384 kbps

POWER Class: 3 (+23 dBm)

EDGE section

QUAD-BAND EDGE/GPRS/GSM: 850/900/1800/1900 MHz

- Downlink up to 236 kbps
- Uplink up to 236 kbps

GSM Power Class 4 for 850 / 900 bands

GSM Power Class 1 for 1800 / 1900 bands

GPRS / EDGE class B, multislots class 12 operation - supports all coding schemes (CS1-CS4, MCS1.MCS9)

Main Dual-band CDMA Features (optional)

PCI Express MiniCard CDMA engine

Supports Dual band (800/1900 MHz)

Physical Characteristics

DIMENSIONS	90 x 96 mm (3.6" x 3.8")
HEIGHT	11 mm (0.4")
POWER SUPPLY	Single +5V DC +/- 5%
POWER CONSUMPTION	3.0 W (typical) 4.5 W (maximum)
OPERATING TEMPERATURE	-25 ~ + 60°C (standard) -30 ~ + 85°C (storage)
HUMIDITY	Up to 95% non-condensing

Options

Conformal coating

Custom connectors

Typical Applications

WIRELESS communications in transportation, defence and industrial applications.

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