



UMTS Modem alpha[®] UMTS WTM

For mobile applications and extreme temperature conditions
(-25 °C...+70 °C)



FMN communications GmbH is
certified CISCO-ATP partner and CDTF partner.
This product is compatible with the CISCO-MAR-3200 series.





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Outdoor housing

The **alpha® UMTS WTM** is an UMTS modem designed for outdoor use. The modems are available both as PC/104-Plus modules and in rugged outdoor housings. The PC/104-Plus version can easily be integrated into appropriate PCB systems. In combination with the CISCO MAR 3200 (Mobile Access Router), for which it has been optimised, it is offered by FMN as one version of the **alpha® route**.

Functionality

- Transformation UMTS / HSDPA / GPRS / EDGE ↔ Ethernet 10/100
- IP on both interfaces (UMTS, Ethernet)
- Router functionality
- Configuration interface for the setting of parameters
 - UMTS and access parameters
 - Router parameters
- Possibility to update

Air interface

- UMTS (HSDPA) antenna
 - U.F.L RF at alpha® UMTS WTM PC
 - SMA at alpha® UMTS WTM EG

Ethernet

- 10/100 Mbps
 - Plug AMP 104960-4 (alternatively RJ45 over adapter) at alpha® UMTS WTM PC
 - RJ45 at alpha® UMTS WTM EG

SIM

- Onboard socket

GPIO

- Status indications (LED)

RF features

- Quad-band GSM/GPRS 850, 900, 1800, 1900 MHz
- UMTS WCDMA FDD 2100 MHz

Packet mode features

- UMTS data rates 384 kbps Downlink, 384 kbps Uplink
- HSDPA data rates 1.8 Mbps Downlink, 384 kbps Uplink
- GPRS/EDGE Class B, Multislot Class 10

Power supply

- $V_{cc} = 3.0 \dots 3.6 \text{ V}$, $I_{max} = \text{approx. } 2.0 \text{ A}$ from PC/104 bus
- at **alpha® UMTS WTM EG** external power supply unit (100-240 V AC)

Mechanical specification

- Form factor according to PC/104-Plus specification version 2.0 Nov. 2003
- at **alpha® UMTS WTM EG** protection class IP54
- Operating temperature: -25 °C ... +70 °C (+55 °C with outdoor housing)
- Storage temperature (96 h): -40 °C ... +85 °C
- Vibration resistance DIN EN 60068-2-6
- Shock DIN EN 60068-2-27

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