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Technical Specifications

Enclosure format	Portable
Dimensions (WxHxD)	115 x 55 x 195 mm
Dimensions with angle brackets (WxHxD	175 x 75 x 195 mm
Weight (ca.)	1.5 kg
Power rating	7-33 VDC, 2 A max, connector for operation in vehicles
Power supply	External power supply, 100-240 VAC, 50-60 Hz
Working temperature	-10 - 45° C
Power supply cooling	Passive
Humidity	10 - 90% (noncondensing)
LAN Interface	GBit Ethernet
WAN Interface	1x GBit Ethernet, 4x UMTS/HSPA+/EDGE (4x SMA connector) as permanent parts
W-LAN Access point	2.4 & 5 GHz Dual Band (3x RP-SMA connector)
Bonding capacity	35 MBit/s
SIM card holders	4x integrated beneath screwable cover (hot-plug capable)
Max. power consumption	15 Watt
Typical power consumption	10 Watt

The Multichannel VPN Router 500 makes high bandwidths and reliable data connection available for ultra-mobile usage scenarios: Four integrated UMTS/HSPA+/EDGE modules guarantee optimal utilization of all available cellular mobile bandwidths. In four card holders, SIM cards of different cellular phone network providers can be used even cross-border to supply long-distance busses, utility and construction vehicles, emergency and service vehicles, sedans with professional multimedia equipment, river boats and lots more with Internet. The integrated W-LAN access point with 2,4 or 5 GHz (Dual Band) provides all the available bandwidth for any number of users.

Other deployment areas include the connection of variable locations, real-time video transmission through units not exceeding the size of a backpack as alternative to big broadcasting vans, mobile-to-mobile communication, and the highly available and encrypted linkage of emergency vehicles with sovereign duties like police cars, fire trucks, military and ambulance vehicles. With this router, the supply of devices with fast and reliable data linkage outside the service areas of grid-bound Internet connections can be realized as well without difficulty.

The Multichannel VPN Router 500 stands out due to its robust and power saving layout. It comes with seven antennas (4x UMTS, 3x W-LAN) as well as seven SMA connectors for the alternative use of external antennas. With that, it meets all demands made to a fast and highly available Internet connection for many intended uses.

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Supported Protocols

- HSDPA 21.1 Mbps
- HSUPA 5.76 Mbps
- UMTS/HSPA (WCDMA/FDD) 2100 Mhz
- Quad-band EGSM 850 / 900 / 1900 / 2100 MHz
- GPRS multi-slot class 12
- EDGE multi-slot class 12
- PPP
- CHAP/PAP

ACCESSORIES

Optional Additional Licences
- Extended SNMP monitoring
- Streaming optimization

Features

- Real bonding of all connection band-
  widths with / without TCP optimizing
- Quality of Service / traffic shaping
  (per WAN module / VPN tunnel)
- NAT and port forwarding
- Monitoring (graphical and remote-syslog)
- Unlimited number of VPN tunnels (SSL / AES)
- Rule-based routing
- Traffic accounting via external server

Delivery Content

- 1 Multichannel VPN Router 500
- 2 Detachable mounting angles
- 1 Power supply unit with IEC power cable
- 1 Connector cable for vehicle electrical system
- 1 Manual
- 1 CD with software
- 7 Direct mount cellular quad-band omni-
  directional antennas (4x for UMTS/HSPA+/
  EDGE, 3x for W-LAN access point)