



## PRODUCT INFORMATION

### MULTICHANNEL VPN ROUTER 511



#### Technical Specifications

Enclosure format	Portable
Dimensions (WxHxD)	115 x 60 x 195 mm
Dimensions with angle brackets (WxHxD)	182 x 67 x 195 mm
Weight (ca.)	1.3 kg
Power rating	7–30 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 LTE/DC-HSPA+/EDGE as permanent parts
W-LAN Access point	2.4 & 5 GHz Dual Band 802.11a/b/g/n 3x3 MIMO
GPS	L1 band with 1.57 GHz
Bonding capacity	45 Mbps
SIM card holders	4x integrated beneath screwable cover (hot-plug capable)
Max. power consumption	15 Watt
Typical power consumption	10 Watt
Recom. # of users in LAN	10

By the use of four LTE modems and a GPS receiver, the Multichannel VPN Router 511 makes high bandwidths and reliable data connections available for ultra-mobile usage scenarios in the U.S. and Canada. Four integrated LTE/DC-HSPA+/EDGE modems guarantee optimal utilization of all available cellular mobile bandwidths in North America. The newest mobile phone standard LTE—also called 4G—is already available in many countries worldwide and allows higher bandwidths and higher ranges at the same time. LTE forms the current state of the art regarding mobile phone services and thus provides long-term feasibility.

Especially in mobile usage, the integrated LTE modems ensure uninterrupted mobile phone connections due to the additional support for the mobile phone standards UMTS and GSM. The transition between different mobile phone standards is carried out seamlessly, and at all times, the best available connection is used. The GPS function allows locating the router at all times by using the administration tool. For efficient vehicle fleet management, this geo-tracking is very useful.

In four card holders, SIM cards of different cellular phone network providers can be used even cross-border to supply long-distance busses, trains, ships, utility and construction vehicles, emergency and service vehicles, sedans with professional multimedia equipment, river boats and lots more with Internet. The integrated WiFi 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.



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### MULTICHANNEL VPN ROUTER 511



#### Frequency Bands

- LTE Cat3: LTE-FDD Band 2/4/5/13/17/25 (1900/AWS/850/700/700/1900 MHz)
- HSPA+/UMTS Band 1/2/4/5/8 (2100/1900/AWS/850/900 Mhz)
- CDMA/EV-DO Band BC0/BC1/C10 (800/1900/1700 Mhz)
- GSM/GPRS/EDGE (850/900/1800/1900 MHz)
- GPS: L1 Band with 1.57 GHz

#### Connectors

- 8x SMA connector for LTE / MIMO
- 3x RP-SMA connector for WiFi
- 1x SMA connector for GPS

#### Features

- Real bonding of all connection bandwidths 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 510
- 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
- 11 Direct mount cellular quad-band omnidirectional antennas (8x for LTE/DC-HSPA+/EDGE/GPS, 3x for WiFi access point)
- 1x GPS antenna with 3 m cable

The Multichannel VPN Router 511 stands out due to its robust and power saving layout. It comes with 12 antennas (8x LTE, 3x WiFi and 1x GPS); the eight SMA connectors also allow 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.

PLEASE NOTE: This product works with RuggedVPN firmware generation only, and requires a subscription to Viprinet Lifetime Maintenance (VLM). Connecting this device to Viprinet Multichannel VPN Hubs without RuggedVPN is possible; however, full performance is only possible upon connection with a Hub that has been updated to RuggedVPN.

## ACCESSORIES

### Antenna Solutions

- LTE/UMTS MIMO Dual Omni Panel Antenna
- LTE/UMTS Car Antenna
- LTE/UMTS Bumper Mount Antenna

### Optional Additional Licenses

- Extended SNMP Monitoring
- Streaming Optimization
- Node Stacking
- Enterprise Node Features



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