



## PRODUCT INFORMATION

### 4.5G/GPS LTE-A EUROPE/AMERICAS MODULE



#### Air Interface

- LTE / HSPA+

#### Transfer Rate

- LTE Cat6 (DL up to 300 Mbps / UL up to 50 Mbps)
- HSPA+ (DL up to 42 Mbps / UL up to 5.76 Mbps)
- UMTS (up to 384 Kbps)

#### Frequency Bands

- LTE-FDD Band  
1/2/3/4/5/7/12/13/20/25/26/29/30  
(2100/1900/1800/1700/850/2600/700abc/  
700c/800/1900/850/700de/2300 MHz)
- LTE-TDD Band 41 (2500 MHz)
- HSPA+/UMTS Band 1/2/3/4/5/8  
(2100/1900/1800/1700/850/900 MHz)
- GPS: L1 Band with 1.57 GHz

#### Approvals

- Regulatory: FCC, IC, CE, NCC, GCF, PTCRB
- Carrier: AT&T, Verizon, Sprint, Vodafone

#### Satellite Systems

- GPS, Glonass, Beidou, Galileo

#### Connectors

- 2x SMA connectors (female) to connect an external MIMO antenna
- 1x SMA connector (female) to connect an external GPS antenna

#### Suitable for

- Multichannel VPN Router 200
- Multichannel VPN Router 3X0
- Multichannel VPN Router 1610
- Multichannel VPN Router 26X0

With the 4.5G/GPS LTE-A Europe/Americas Hotplug Module, LTE-Advanced can be used with every modular Viprinet Multichannel VPN Router. LTE-Advanced is an enhancement of mobile phone standard LTE (4G), and enables significantly higher data transfer rates. The 4.5G/GPS LTE-A Europe/Americas Hotplug Module achieves data rates of up to 300 Mbps—a download three times faster than with previous 4G modules.

By additional support for mobile phone standard UMTS / 3G, this module provides uninterrupted mobile data connections, and is thus especially suited for Mobile Computing and networking with large data volumes. Transition between different mobile phone standards is carried out seamlessly, and at all times, the best available connection is used. Since the module supports satellite systems GPS, Glonass, Beidou, and Galileo, the router may be located at all times which is very useful e.g. for efficient vehicle fleet management.

Included in the delivery are two high-quality knuckle-mount antennas for mobile radio and a GPS antenna as well as a small pedestal. Due to two SMA jacks on each module, connecting an external MIMO antenna to the module is possible. Thus, good mobile phone connections can be realized even under the most difficult reception conditions.

Please note: LTE uses different radio frequency bands depending on the country. This module only supports LTE frequency bands common in Europe and North America. When choosing an external antenna, please make sure that it supports the LTE as well as the UMTS frequency bands used.

## ACCESSORIES

### Antenna Solutions

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