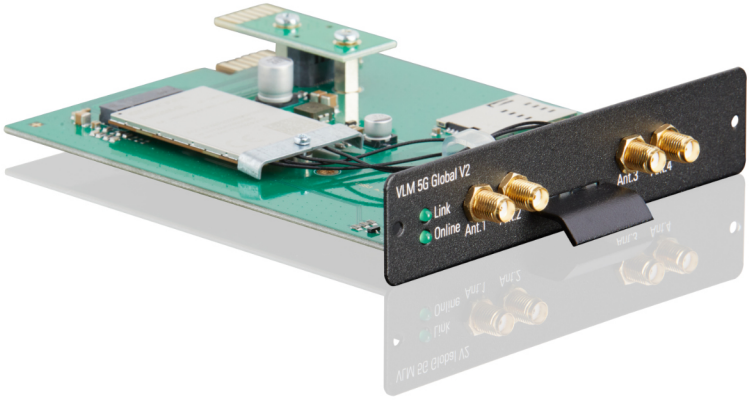
viprinet®

Product information
“VLM 5G Global V2“ Module

Product code 10-01086



Air Interfaces

- 5G 4x4 MiMo
- 4G 4x4 MiMo
- UMTS

Speed

- 5G (DL up to 5 Gbps, UL up to 600 Mbps)
- LTE Cat 20 (DL up to 2 Gbps, UL up to 200 Mbps)
- HSPA+ (DL up to 42 Mbps / UL up to 5.76 Mbps)

Bands

- 5G Bands
  n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/
  n26/n28/n29/n30/n38/n40/n41/48/n66/n70/n71/
  n75/n76/n77/n78/n79
- LTE FDD Bands
  B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/
  B19/B20/B25/B26/B28/B29/B30/B32/B66/B71
- LTE TDD Bands
  B34/B38/B39/B40/B41/B42/B43/B48
- UMTS Bands
  B1/B2/B4/B5/B8/B19

Certifications

GCF, PTCRB, CE, CCC, RCM, IC, FCC

Connectors

- 4x SMA socket for connecting the supplied two MIMO antennas or other antenna solutions
- 2x SIM Card holder (Mini-SIM)

Compatible with

- Multichannel VPN Router 310
- Multichannel VPN Router 2620

This 5G module is designed for today's and upcoming 5G networks in Europe, the Americas and other regions. The module supports both the mixed-mode combination of LTE+5G networks (also called “5G Non-Standalone”) being in deployment today, and also using “pure” 5G (also called “5G Standalone”) which is to be rolled out in various countries.

In addition to 5G the module also supports 4.5G LTE-Advanced (Category 20). The 4x4 MiMo technology is used both for 5G and 4G. Compared to earlier 4G modems that only supported 2x2 MiMo this module will provide better performance especially in situations of bad coverage. The module also supports fallback to 3G UMTS.

Up to two SIM-Cards can be plugged into the module, and selected via the router’s web interface.

The module is coming equipped with the standard Viprinet hotplug module connector. When used in existing modular Viprinet routers it will be able to provide "real" 250 MBit/s, which is largely in line with what to actually expect on 5G networks getting deployed today.

The module also carries a secondary hotplug connector that is going to be used in future router models. Using that, the module will be able to provide speeds upwards of 1 GBit/s once 5G-SA networks will be supporting that using higher-up frequency bands. Due to this, this 5G module is highly future-proof. It may be used with today’s router generation with 4G or 5G, and in the future in upcoming faster Viprinet routers and improved 5G networks to then provide Gigabit speeds.

Two high-quality MIMO antennas are supplied with the module. These can be placed on any surface, and thanks to the magnetic base they hold particularly well on metal surfaces. With their tripod thread, they can also be mounted on a wall or tripod. Thanks to the standard SMA antenna connectors, any antenna from other manufacturers can also be used with the module.

As of December 2022. Further info at https://vlm.support