



PRODUCT INFORMATION

TOUGHLINK 2503



Technical Specifications

Enclosure format	2-DIN
Dimensions (WxHxD)	178 x 97 x 316 mm 7.01 x 3.82 x 12.44 in
Weight (ca.)	3.8 kg 8.4 lb
Power rating	12 VDC, 4 A max PoE+-able
Power supply	External power supply, 100–240 VAC, 50–60 Hz
Operating temperature	-30° – +70° C -22° – 158° F
Cooling	Passive
Humidity	10 – 90 % (non-condensing) only with additional housing
LAN Interface	GBit Ethernet
WAN Interface	1x GBit Ethernet and 4x 4G Global LTE pre-installed
WLAN Access point	2x 2.4 & 5 GHz Dual Band 802.11a/b/g/n 3x3 MIMO
GPS	L1 band with 1.57 GHz
Bonding capacity	up to 150 Mbps
SIM card holders	2 slots per mobile data interface (Dual SIM)
Maximum power consumption	48 Watt
Typical power consumption	20 Watt
Recommended # of users in LAN	75

With Toughlink, Viprinet offers a router platform that can cope with even the most extreme demands. Up to five broadband connections can be bonded to form a highly available connection. The extraordinarily robust housing enables mobile and stationary missions from the Sahara to the North Pole.

The Toughlink 2503 model is equipped with four LTE modems that cover a total of 19 different LTE radio bands, and thus almost all frequencies commonly used worldwide. This makes the device predestined for international and cross-border use. Unlike the sister models 2500/2501/2502, the modems only have LTE category 4 (instead of LTE-Advanced in the other models), but since this still achieves up to 150 Mbit/s downstream and 50 Mbit/s upstream per channel, these lower peak speeds per modem are of little relevance in practice.

The GPS function enables the current location of the router in the administration tool to be read out at any time, which is essential for efficient fleet or fleet management.

The device is easy to handle. SIM cards can be changed very easily during operation, and the SIM card holders are designed as dual SIMs: Two SIM cards can be provided for each interface, between which the modem switches automatically. This simplifies cross-border use of the device, as it can be equipped with SIM cards from different mobile network operators even before the start of the journey to ensure fail-safe connectivity even across national borders. The device is therefore particularly suitable for use on the road and for all scenarios in which Internet must be quickly available, e. g. events or building site connectivity.



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Frequency Bands

- 4G LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28
- 4G LTE-TDD: B38/B39/B40/B41
- UMTS: B1/B2/B4/B5/B6/B8/B19
- GSM: B2/B3/B5/B8
- GPS: L1 Band with 1.57 GHz

Connectors

- 8x FAKRA connector for LTE / MIMO
- 6x FAKRA connector for WLAN AP
- 1x FAKRA connector for GPS

Features

- Real bonding of all connection bandwidths
- Quality of Service / traffic shaping
- Monitoring (graphical and remote-syslog)
- Traffic accounting via external server
- Multi-user web administration system

Delivery Content

- 1x Toughlink 2503
- 1x Power supply unit
- 1x Power cable
- Antennas according to order

A Gigabit Ethernet interface provides the aggregated bandwidth to the LAN. At the same time, the two integrated WLAN access points with 2.4 or 5 GHz provide the available bandwidth without cables. Using the LAN interface, Toughlink can be supplied with power via PoE+. Therefore, if the device is mounted outside a building or vehicle, it only requires one single (Ethernet) cable to supply the interior.

All antenna connections are equipped with FAKRA connectors. These plugs allow simple "plug & play", but are also self-closing and strain-relieved at the same time. With that, antennas can be installed or removed within seconds. In addition, the connectors enable optimal permanent installation.

This Viprinet router needs to have a subscription to Viprinet Lifetime Maintenance. Without a VLM license, updates and support will not be available.

ACCESSORIES

Optional Additional Licenses

- Streaming Optimization
- Node Stacking
- Enterprise Node Features