

## 4G LTE Modem

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### Overview

4G LTE Modem is a reliable solution for on-board internet access via 4G/3G/GSM network. An external antenna, placed in the top allows to increase the operating range up to even 25 NM off shore.

Boolean Modem is equipped with an automatic switch over to other internet connection, such as VSAT / Fleet Broadband while LTE/GSM network is not available.

The unit is supplied from ship's 12V / 24V DC (9-36 VDC) power line and has internal, industrial grade isolated power supply.

Fully configurable internal firewall and traffic filtering allow to dramatically reduce data consumption and fit the device to customer's demands. Remote access to configuration data allows to configure device anytime while a vessel is in 4G/3G/GSM network!

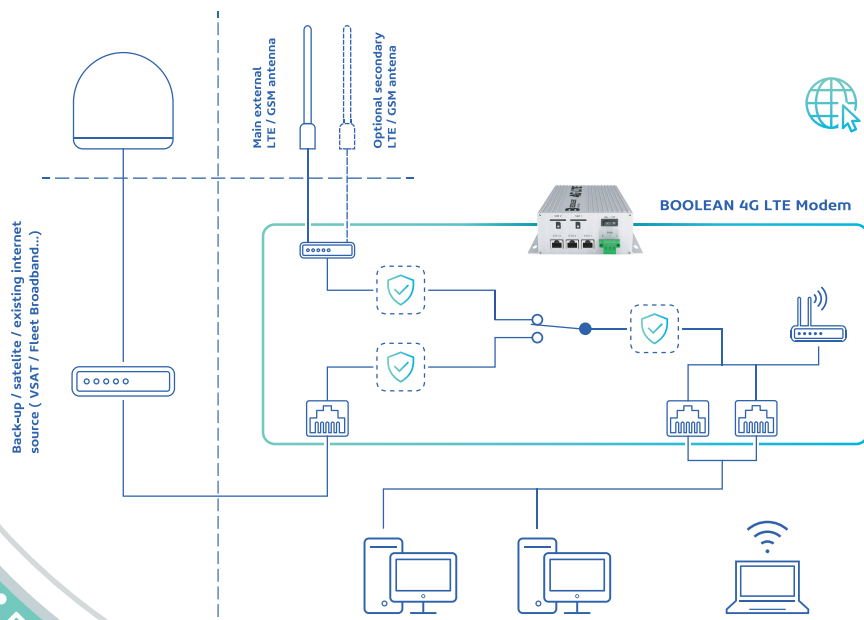
Modem is available as either Single SIM or Dual SIM

### Features

- Powerful Processor: QCA9558 720MHz
- Web filtering to reduce data consumption
- Internal firewall
- Individual configuration
- Simple and compact design
- Industrial standard
- High coverage
- LED indication of GSM/LTE operation
- Supports dual antenna installation (switches to strongest signal, in e. while rolling, or when one antenna is covered by ship's construction, etc.)



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### Technical data

- Power Supply: 24VDC (9 to 36VDC)
- Power consumption: Maximum 30 W at 24VDC
- Galvanic isolation: Power supply 1,5kVDC,
- Reverse polarity and overvoltage protection
- 3x Gigabit Ethernet
- Operating temperature: -20°C .. +50°C
- Wi-Fi: 5GHz 802.11a/n 3x3 MIMO With powerful radio module 1600mW
- LTE bandwidth:
  - 2G Category: Class12
  - 3G Category: R7 (21Mbps Downlinks, 5.76Mbps Uplink)
  - LTE Category: 4 (150Mbps Downlink, 50Mbps Uplink)
  - LTE Channel Bandwidth: 1.4/3/5/10/15/20 MHz
- Operating frequencies:
  - 2G bands: 2/3/5/8 (1900/1800/800/900)
  - 3G bands: 1/2/5/8 (2100/1900/800/900)
  - LTE (TDD) bands: 38/40 (2600/2300)
  - LTE (FDD) bands: 1/2/3/7/8/20 (2100/1900/1800/2600/900/800)

