ADD-ON MODULE

Locomarine

MOBILE EXPANDER
SERIES 6

The easiest way to stay online.

Mobile Expander is add-on module equipped with global 3G/4G/5G modem. Featuring Carrier Aggregation, implemented modem will provide Yacht Router with connection to almost all Worldwide mobile networks. For long distance offshore connectivity (30+ NM) installation of optional high gain outdoor antennas is suggested. Depending on a Yacht Router model it is possible to add multiple Mobile Expanders.

WAN, LAN, Backbone Ports
Total number of Ethernet ports: 5
Ethernet Satellite WAN ports: 0
Ethernet Vessel Networks (LAN) / Backbone ports: 5
Max. data rate on each Ethernet port: 1 Gbps

Mobile Networks
Integrated modems: 1
SIM card slots: 2
SIM card size: Nano SIM
Antenna connector type (on device): 4 SMA female (4x4 MIMO)
Sensitivity of included antennas: 4 dB
Coverage: global
3G category: R8 (42 Mbps downlink, 5.76 Mbps uplink)
4G category: 20 (1.6 Gbps downlink, 200 Mbps uplink)
5G category: 5G SA Sub-6 (2.4 Gbps downlink, 900 Mbps uplink)
          5G NSA Sub-6 (3.4 Gbps downlink, 550 Mbps uplink)
3G bands: 1/2/4/5/8/19 (2100/1900/1700/850/900/800)
4G FDD bands: 1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/29/30/32/66/71 (2100/1900/1800/1700/850/2600/900/700/800/2300/1500/600)
4G TDD bands: 34/38/39/40/41/42/43/48/46 (2000/2600/1900/2300/2500/3500/3700/5200)
5G NR bands: 1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38/40/41/48/66/70/71/75/76/77/78/79 (2100/1900/1800/850/2600/900/700/800/2300/2500/3500/1700/2000/600/1500/3700/4700)

GNSS receiver
Channels: 22 tracking / 66 acquisition
Supported system: GPS/GLONASS/BeiDou/Galileo/QZSS
Sensitivity: -158 dBm
Antenna: no separate antenna - GNSS use mobile antennas

Power, environment and dimensions
Power, environment and dimensions
DC power supply input range: 10-28 V
Max. power consumption: 9 W
Operating temperature range for internal unit: -40 to +50 °C
Operating humidity range: 5-95 % non-condensing
IP Protection: IP50
Dimension (WxDxH, without antennas): 201 x 97 x 44 mm

Software features
Automatic APN
SIM card hot-swap

Ordering information
Mobile Expander: ME-S06