

KVH TracPhone® FB250/FB500

Technical Specifications



Specifications

Inmarsat FleetBroadband approved
Meets RTTE, FCC, and CE requirements

Antenna Diameter

FB250: 10.6" (27 cm) – Compact
19" (48 cm) – M5 Matching
FB500: 26" (66 cm) – M7 Matching
35" (89 cm) – M9 Matching

Antenna Height

FB250: 11.8" (30 cm) – Compact
21" (53 cm) – M5 Matching
FB500: 27" (69 cm) – M7 Matching
39" (99 cm) – M9 Matching

Antenna Weight

FB250: 11 lbs (5 kg) – Compact
20 lbs (9 kg) – M5 Matching
FB500: 40 lbs (18 kg) – M7 Matching
77 lbs (35 kg) – M9 Matching

Frequency Band

Rx: 1525.0 - 1559.0 MHz
Tx: 1626.5 - 1660.5 MHz
Channel spacing: 1.25 kHz - Rx

Recommended Antenna Cable

Cable loss max: 20 dB at 1660 MHz
G02232-D: Max 23 ft (7 m)
RG-223-D: Max 88 ft (27 m)
SX3272: Max 108 ft (33 m)
RG214/U: Max 197 ft (60 m)
S 07272B-05: Max 318 ft (97 m)

Global Services

Voice: 4 Kbps; 3.1 kHz audio
ISDN: TracPhone FB500: 64 Kbps
Fax: Group 3 (Globalbeam) fax via
3.1 kHz audio
Standard IP: TracPhone FB250: 284/284 Kbps
TracPhone FB500: 432/432 Kbps
Streaming IP: TracPhone FB250: 32, 64, 128 Kbps
TracPhone FB500: 32, 64, 128, 256 Kbps
SMS: Standard 3G (up to 160 characters)
SIM card: Removable

Velocity Acceleration-compatible

FB250: Yes
FB500: Yes

Power Supply and Consumption

DC input range (isolated): 10 to 32V DC
Power (max), incl. antenna: 150 W @ 10-32V

Antenna Connector

BDU: TNC-socket, female
TracPhone FB250 ADU: TNC(m)
TracPhone FB500 ADU: 50 ohm N (f)

Environmental Conditions

Ambient temperature: -13°F to +131°F (-25°C to +55°C)
ADU storage: -40°F to +185°F (-40°C to +85°C)
Survival*: -40°F to +176°F (-40°C to +80°C)
Operating humidity: 95% non-condensing at +40°F (+40°C)
BDU: IP31
ADU: IPX6

Interfaces

Power On/Off button
DC heavy-duty power input connector with remote on/off and locking mechanism
4 10/100 Mbit Ethernet LAN user ports w/Power over Ethernet (PoE)
1 Euro ISDN
SIM card
Factory default reset
2 independent RJ-11 phone 2-wire connectors
5 I/O connector with general purpose I/Os:
- L-band output
- Status LEDs
- Power supply and consumption

Telephone Functionality

Phone book
Message indication
Restricted dialing
Traffic logging

Set-up and Router Functionality

Web server
Built-in NAT router

Matching KVH TracVision® Dome Options

FB250: TracVision M5
FB500: TracVision M7/M9

Billing Method

Visit www.kvh.com/inmarsatairtime and download the *Inmarsat Airtime by KVH Rate Sheet* for detailed pricing

* Power on, non-functional; automatic thermal surveillance shuts down terminal gradually at 185°F (+85°C) PCB temperature



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