

KVH TracPhone® FB-Series

Technical Specifications



Specifications

Inmarsat FleetBroadband approved. Meets RTTE, FCC, and CE requirements.

Antenna Diameter

FB150:	13" (33 cm)
FB250:	10.6" (27 cm) – Compact 19" (48 cm) – M5 Matching
FB500:	26" (66 cm) – M7 Matching 35" (89 cm) – M9 Matching

Antenna Height

FB150:	13.5" (34 cm)
FB250:	11.8" (30 cm) – Compact 21" (53 cm) – M5 Matching
FB500:	27" (69 cm) – M7 Matching 39" (99 cm) – M9 Matching

Antenna Weight

FB150:	10.9 lbs. (4.94 kg)
FB250:	11 lbs. (5 kg) – Compact 19.8 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

Recommended Antenna Cable

Cable loss max:	20 dB at 1660 MHz
G02232-D:	Max 23' (7 m)
RG-223-D:	Max 88.5' (27 m)
SX3272:	Max 108' (33 m)
RG214/U:	Max 197' (60 m)
S 07272B-05:	Max 318' (97 m)

Global Services

Voice:	Digital 4 Kbps voice; Digital 3,1 kHz audio
ISDN:	TracPhone FB500: 64 Kbps
Fax:	TracPhone FB250, FB500: Group 3 fax via 3,1 kHz audio
Standard IP:	TracPhone FB150: 150/150 Kbps 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

FB150, FB250, FB500:	Yes
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Set-up and Router Functionality

Web server, Built-in NAT router

Power Supply and Consumption

DC input range (isolated):	10 to 32V DC
TracPhone FB150 power (max), incl. antenna:	120 W @ 10-32V
TracPhone FB250, FB500 power (max), incl. antenna:	150 W @ 10-32V

Antenna Connector

BDU:	TNC-socket, female
TracPhone FB150, FB250 ADU:	TNC
TracPhone FB500 ADU:	50 ohm N

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 +104°F (+40°C)
BDU:	IP31
ADU:	IPX6

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

Interfaces

Power On/Off button, SIM card, Factory default reset, DC heavy-duty power input connector with remote on/off and locking mechanism, 5 I/O connector with general purpose I/Os, Status LEDs.

TracPhone FB150: 2 10/100 Mbit Ethernet LAN user ports with Power over Ethernet (PoE)

TracPhone FB250, FB500: 4 10/100 Mbit Ethernet LAN user ports with Power over Ethernet (PoE)

TracPhone FB250, FB500: 1 Euro ISDN

TracPhone FB250, FB500: 2 independent RJ-11 phone 2-wire connectors

TracPhone FB150: 1 independent RJ-11 phone 2-wire connector

TracPhone FB250, FB500: L-band output connector

Telephone Functionality

Phone book, Message indication, Restricted dialing, Traffic logging

Matching KVH TracVision® Dome Options

FB150:	TracVision M1
FB250:	TracVision M5
FB500:	TracVision M7/M9

Billing Method

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

www.kvh.com



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