Intellian FB500R

Ultimate Marine FleetBroadband
Antenna Systems

3+2
YEAR YEAR
PARTS LABOUR
GLOBAL WARRANTY

Ultimate global maritime terminal
Intellian's FB500R is the ultimate solution for customers who want a rack mount FleetBroadband solution.

Reliable hardware
FB500R is designed for reliable operation for both ADU and BDU on Inmarsat's Fleetbroadband network.   Approved to meet Intellian standards, you can be confident of both the quality of the equipment and the global support behind it.

Matching radome solutions
The FB500R radome matches the Intellian i6 radome but several other radome sizes are available. Now you can select from the t80W, t110W, t130W, GX60 and GX100 to perfectly match your VSAT or TVRO radome for the best and balanced appearance on your vessel.

t130W GX100 t110W t80W GX60 Optional radome sizes

Primary Handset
The primary handset provides an intuitive user interface on a clear 2" LCD and mobile phone type keys for making phone calls, texting SMS messages and accessing various configurations supported by the BDU.

Simultaneous voice and data access
FB500R provides simultaneous access to data services, voice and text messaging with data speeds up to 432 kbps.

19" Rack-mount BDU
The Intellian FB500R is a 19" rack-mount below deck unit (BDU) which fits perfectly into a standard 19" rack that occupies 1U space. The BDU has an integrated AC power supply for efficient rack installation.

Intellian
Connect with the best

Intellian FB500R

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Technical Specifications

Physical

ADU Dimensions	70 cm x 72 cm / 27.6" x 28.3"
ADU Weight	15.5 kg /34.1 lbs
BDU Dimensions	43.1 cm x 38.1 cm x 4.4 cm/ 17" x 15" x 1.7"
BDU Weight	4.8 kg /10.5 lbs

Environmental Conditions

Operating Temp.Range	-25°C to +55°C / -13°F to +131°F
Operating Humidity	[ADU] EN60945, [BDU] 95% non-condensing at +40°C
Water Ingress	[ADU] IP56, [BDU] IP31
Approvals	Inmarsat FleetBroadband/ R&TTE/ CE/ FCC
Warranty	3 years parts and 2 year labor

Global Services

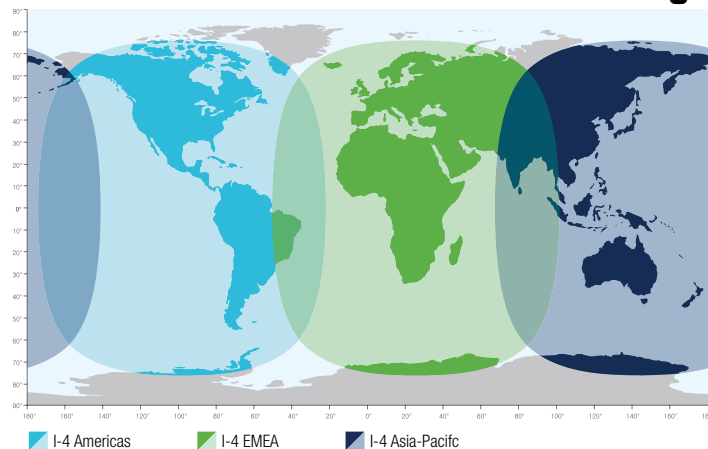|	
Voice	Digital 4 kbps Voice, 3.1 kHz Audio
Standard IP	Up to 432 kbps
Streaming IP	8, 16, 32, 64, 128, 256 kbps
SMS	Up to 160 characters (3G standard)
Fax	Group 3 (via 3.1 kHz Audio)
Airtime Service	Inmarsat airtime

Frequency Band and Connectivity

Tx	1626.5 ~ 1660.5 MHz and 1668.0 ~ 1675.0 MHz
Rx	1518.0 MHz~1559.0 MHz
Channel Width	[Rx] 10.5~189 kHz, [Tx] 21~189 kHz
Ethernet	2 LAN and 2 PoE (RJ45) ports
Voice/Fax	1 Voice (RJ11) and 1 Fax (RJ11)
GPS output	NMEA0183 format

Power Supply and Consumption

AC Input Range	100~ 240 VAC (50/60Hz) : 3.3A
Power (max)	250W

Inmarsat FleetBroadband Global Coverage

- I-4 Americas
- I-4 EMEA
- I-4 Asia-Pacifc
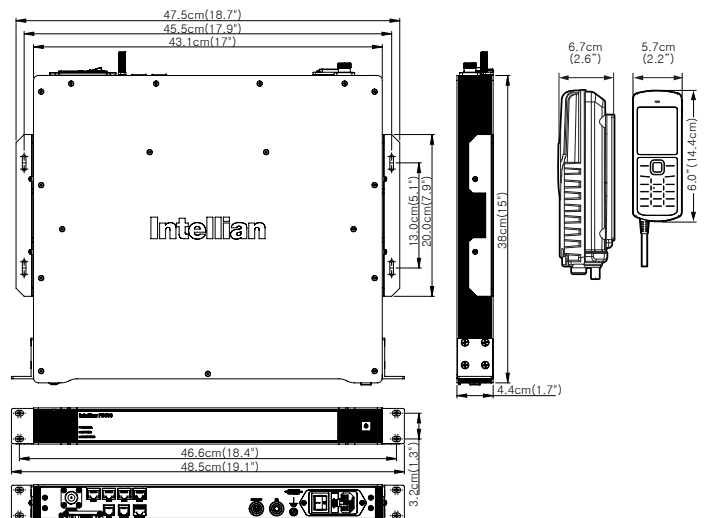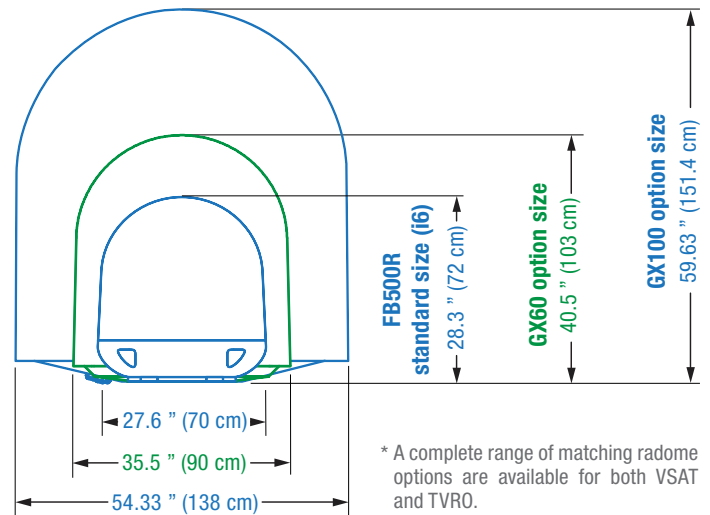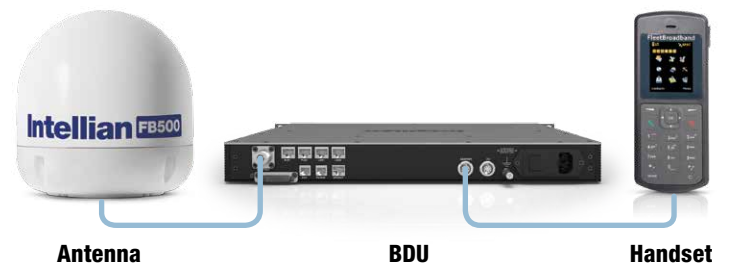
This map depicts Inmarsat's expectations of coverage, but does not represent a guarantee of service. The availability of service at the edge of coverage areas fluctuates depending on various conditions.

Systems Dimensions

ADU (Above Deck Unit) Matching Radome Options

FB500R standard size (i6) 28.3 " (72 cm)
GX60 option size 40.5 " (103 cm)
GX100 option size 59.63 " (151.4 cm)

27.6 " (70 cm)
35.5 " (90 cm)
54.33 " (138 cm)

* A complete range of matching radome options are available for both VSAT and TVRO.

47.5cm(18.7")
45.5cm(17.9")
43.1cm(17")
13.0cm(5.1")
20.0cm(7.9")
38cm(15")
4.4cm(1.7")
6.7cm (2.6")
5.7cm (2.2")
6.0"(14.4cm)

46.6cm(18.4")
48.5cm(19.1")
3.2cm(1.3")

System Diagram

Antenna   **BDU**   **Handset**

Intellian