

# Intellian FB500R

**Ultimate Marine FleetBroadband**  
Antenna Systems



## 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.



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

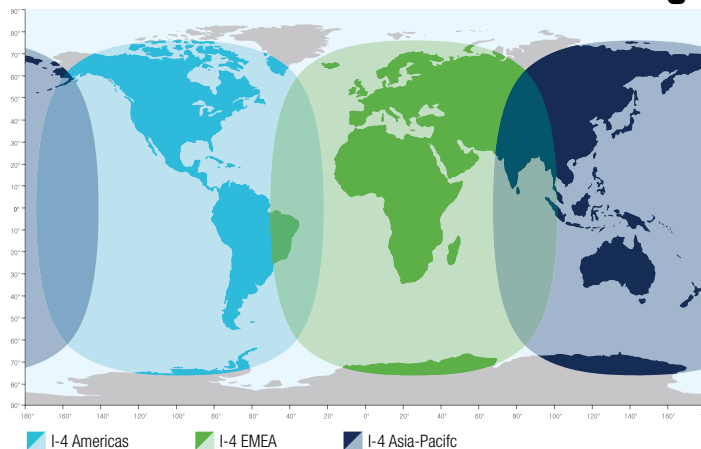
# Intellian FB500R

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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 1 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

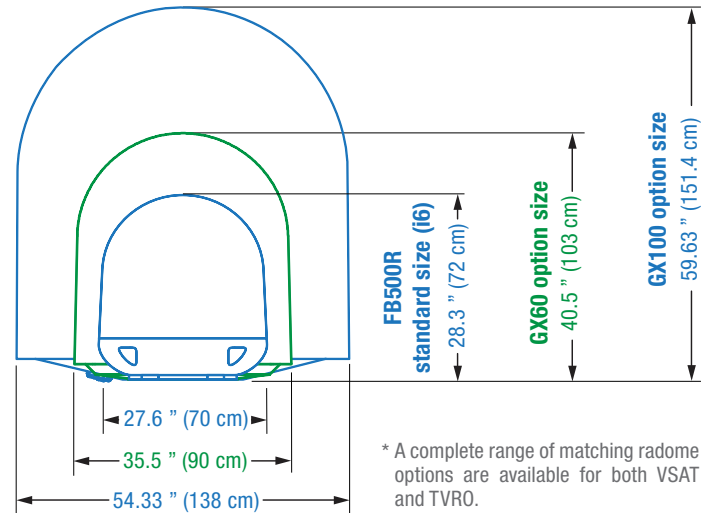


I-4 Americas    I-4 EMEA    I-4 Asia-Pacific

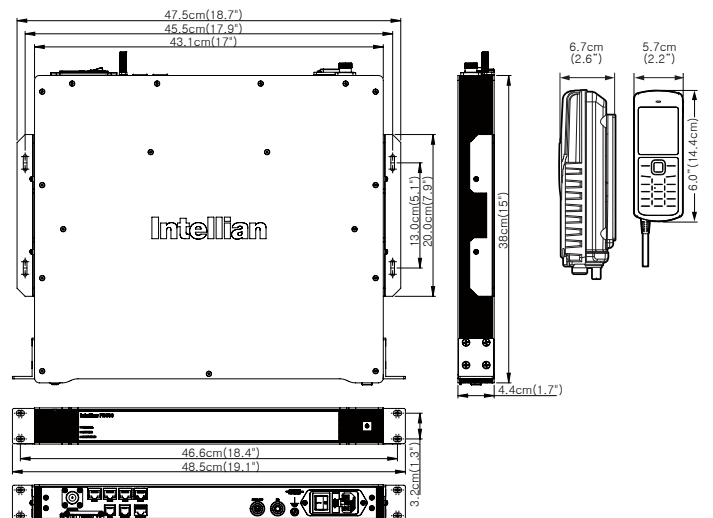
This map depicts Inmarsat's expectations of coverage, but does not represent a guarantee of service. The availability of service at the edge of coverage areas fluctuates depending on various conditions.

### Systems Dimensions

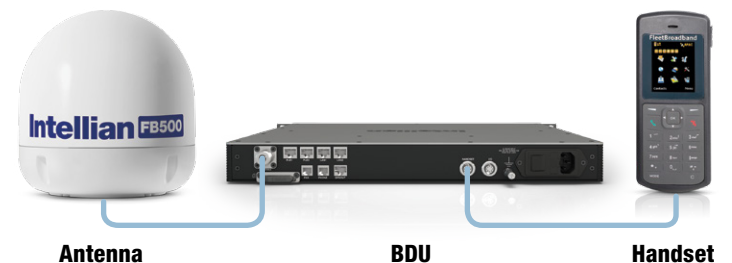
ADU (Above Deck Unit) Matching Radome Options



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



### System Diagram



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