Inmarsat BGAN FB500 Product Brief







- 3-Axis tracking antenna (ADU) for Inmarsat BGAN system
- Connects to below deck terminal unit (BDU) through a single coaxial connection
- ASK Modem connection to terminal unit (BDU)
- Low noise high linearity Rx amplifier chain.
- RX Gain reduction (BDU Controlled) for enhanced system linearity
- Constant gain high power Tx amplifier chain
- Complete GPS engine included with high linearity front-end
- Pole-Mount and other accessories available

GENERAL SPECIFICATIONS	
Dimensions	Ø:653mm/H:652mm/18.5kg
Shipment packaging	71 x 71 x 81cm / 26kg
RF/DC connector	N female
EMC & Safety (Note1)	IEC 60945, EN 60950
IP rating (Note 2)	IP56
Temperature (operating)	-25 to 55 °C
Temperature (storage)	-40 to 80 °C
Relative humidity at 40°C	≤ 95 %
Relative wind speed	≤ 200 km/h
Turn rate	6°/s
Roll	±30°/8s
Pitch	±10/6s
Yaw	±8/50s
Supply Voltage	38-45 V
DC power (Rx/Idle)	23-26 W
DC power (Tx/Max. EIRP)	43-46 W

Note 1: BDU manufacture must perform compliance approval for the entire system that is both BDU and ADU. Contact SpaceCom for further ADU details needed for compliance approval.

Note 2: For mounting options and details contact SpaceCom.

TX SPECIFICATIONS	
1626.5-1660.5 MHz	
1668.0-1675.0 MHz	
22.0 dBW	
±0.4 dB	
-5 dBm	
RX SPECIFICATIONS	
1518 - 1559 MHz	
> -7.0 dB/K	
39 dB	
+2/-3 dB	
0-15 dB	
GPS SPECIFICATIONS	
u-Blox module	
NMEA via ASK modem	
<120 s	
10 m (5 satellites visible)	

Note 3: Calculated using the maximum cable loss and an estimated noise figure of the compatible BDU.

Note 4: Average across frequency and excl. antenna element, at 25°C.