



## AIRLINK® SwiftBroadBand (SBB)

AIRLINK® SBB supports all Inmarsat Aero services including Classic, Swift 64, SwiftBroadBand and FANS-1/A Level D requirement, with data rates up to 432 Kbps per channel. AIRLINK® technologies can be found on both military and commercial systems.

### Specifications Part Number 513738-5XX

Antenna Array	2 each
Frequency Range	1.525 to 1.559 GHz rcv., 1.6265 to 1.6605 GHz Xmit.
Size	16 in (407 mm) x 32 in (813 mm) x 0.375 in (9.5mm)
Weight	15.6 lb (7.1 kg)
Input Power	None required (Passive)

### Specifications Part Number 513739-5XX-99

Beam Steering Unit (BSU)	2 each
Function	Provides the steering commands to the antenna
Size	3.5 in (89 mm) x 10.4 in (264 mm) x 13.5 in (343mm)
Weight	16.4 lb (7.4 kg)
Input Power	115 Vac, 400 Hz, <500 mA

### Specifications Part Number 2292643-500

Diplexer/Low Noise Amplifier (DIP/LNA)	2 each
Function	Separates signals into the transit and receive RF channels. Amplifies receive signals from the antenna.
Size	2.0 in (51 mm) x 7.8 in (198 mm) x 11.1 in (282 mm)
Weight	7.0 lb (3.2 kg)
Input Power	115 Vac, 400 Hz, <100 mA

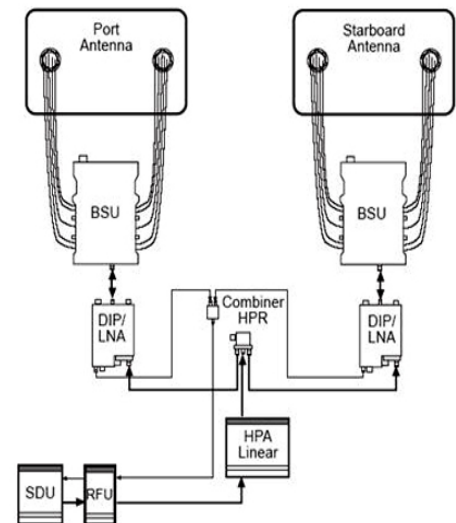
### Specifications Part Number 301706-500

High Power Relay (HPR)	1 each
Function	Two-way RF switch with status contacts
Size	1.2 in (30.5 mm) x 1.9 in (48 mm) x 3.1 in (79 mm)
Weight	0.75 lb (0.34 kg)
Input Power	115 Vac, 400 Hz, 43.5 mA

### Specifications Part Number 300114-500

Combiner	1 each
Function	Combines RF signals received from the 2 antennas
Size	2.0 in (51 mm) x 2.0 in (51 mm) x 0.8 in (20 mm)
Weight	0.75 lb (0.34 kg)
Input Power	None required (Passive)

AIRLINK® High-Gain Antenna System (HGAS) is a side-mounted, conformal electronically steered phased array. The HGAS is comprised of two antenna assemblies located on the aircraft exterior at nominally 45 degrees on either side of the aircraft. This configuration provides coverage of 360 degrees in azimuth and up to 210 degrees in elevation — 57 percent greater than a single top-mount antenna configuration. This ensures high reliability and provides superior coverage for all latitudes and aircraft maneuvers. The aerodynamically efficient design produces the lowest drag of any Inmarsat SATCOM antenna system. The configuration places all of the active electronics inside of the aircraft for higher reliability.



Agility to innovate. Strength to deliver.