

ASPIRE 400™ SATELLITE COMMUNICATIONS SYSTEM

SwiftBroadband Safety (SB-S) for Cockpit and Cabin

Connectivity is everywhere – from our homes to our cars to our offices to airplanes. For aircraft operators, connectivity presents a new set of operational, efficiency and comfort benefits that were previously unavailable.

This connectivity means more than just in-flight emails, movies and social media posts while in flight. The Connected Aircraft revolutionizes modern-day flying, dramatically improving fleet management, flight safety, passenger and crew experience, mission effectiveness, maintenance, flight operations, aircraft turnaround time and costs.

Aspire 400 enables all of this by providing the data pipe to and from the aircraft, delivering safety services and high-speed voice and data communications for cockpits and cabins in a compact and lightweight package.

Using the robust, global Inmarsat I-4 satellite network, Aspire 400 provides single or dual channel SwiftBroadband connectivity. The Satellite Data Unit (SDU) contains two independent SwiftBroadband channels for segregated cockpit and cabin services. For the cockpit, the dedicated channel enables satisfying Future Air Navigation System (FANS) requirements, while the passengers use the second SwiftBroadband channel for voice and data capabilities in the cabin.

Dual Satcom:

To ensure your aircraft is always connected, Aspire 400 supports dual satellite communications: operators can install a second Honeywell satellite communications solution (for example, Aspire 350) with the Aspire 400. This gives higher reliability, increased network coverage, improved efficiency, and less connection downtime for pilots, crew and passengers. In the event the preferred system cannot operate; the backup system takes over.

Honeywell is a leader in providing connectivity hardware and services to the aerospace industry. With more than 100 years of innovation, Honeywell has a footprint on virtually every commercial, defense and space aircraft that enable more fuel-efficient, connected and safe operations. Aspire 400 exemplifies how Honeywell delivers the latest functionalities and technologies in today's connected world.



The flexible system includes a variety of antenna options, ranging from the Intermediate Gain Antenna (single- or multi-channel, Class 7, 330 kbps); to the Enhanced Low Gain Antenna (single-channel, Class 4, 200 kbps); or the High-Gain Antenna (single- or multi-channel, Class 6, 432 kbps).

Additionally, Honeywell's High-Data Rate (HDR) software can add more data capability to the system, enabling data speeds of up to 650 Kbps.

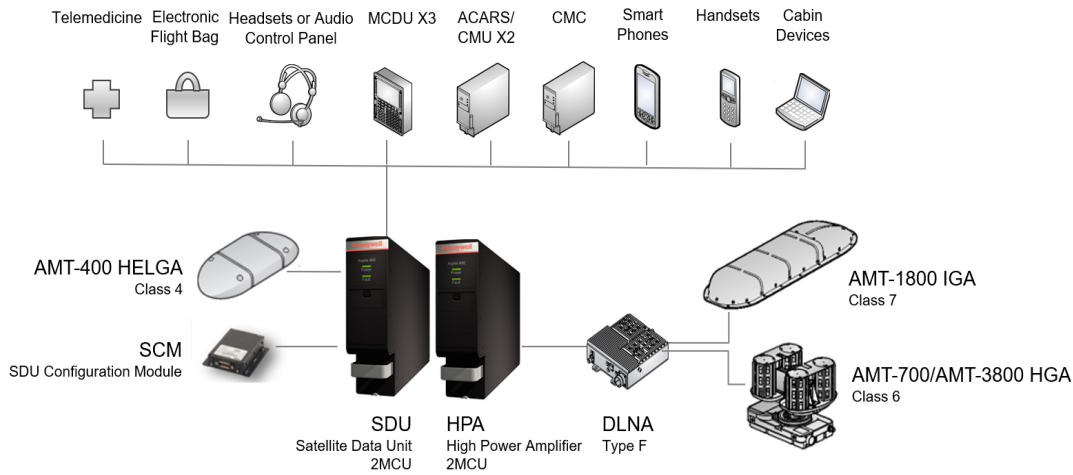
Class 6/7 System Includes:

- Satellite Data Unit (SDU)
- Satcom Configuration Module (SCM)
- High Power Amplifier (HPA)
- Diplexer/Low Noise Amplifier type F
- Class 6 or Class 7 Antenna

Class 4 System Includes:

- Satellite Data Unit (SDU)
- Satcom Configuration Module (SCM)
- HELGA (High Power Enhanced Low Gain Antenna)

Schematic:



Aspire 400 LRU Specifications

SDU	SCM	HPA
Dimensions: 318.0 x 57.2 x 194.1 mm 12.52 x 2.25 x 7.64 in (L x W x H)	Dimensions: 114.3 x 101.6 x 25.4 mm 4.5 in x 4.0 in x 1.0 in (L x W x H)	Dimensions: 318.0 x 57.2 x 194.1 mm 12.52 in x 2.25 in x 7.64 in (L x W x H)
Weight: 3.86 Kg / 8.5 lbs max	Weight: 0.226 Kg / 0.5 lbs max	Weight: 3.75 Kg / 8.25 lbs max
Power: 28 VDC	Power: Powered by SDU, 12	Power: 115VDC

AMT-1800 IGA Class 7	AMT-700 HGA Class 6	AMT-3800 HGA Class 6
Dimensions: 46.48 cm x 19.30 cm x 5.03 cm 18.3 in. x 7.6 in x 1.98 in. (L x W x H)	Dimensions: 10 in. x 10 in. x 9.7 in (L x W x H)	Dimensions: 43 in. x 14.4 in. x 2.68 in. (L x W x H)
Weight: Flat Variant - 5.5 lbs (2.5 kg) max. Curved Variant - 6.0 lbs (2.7 kg) max	Weight: 4.3 lbs (1.95 kg) max	Weight: 19.8 lbs (9.0 kg) max
Power: +28 VDC @ 0.75 amps max 20 W max (Typical 12 W)	Power: DC Model +28 VDC @ 1.25 amps max 35 W max (Typical 15 W)	Power: AC Model 115 V ac (320-800 Hz) @ 0.3 amps RMS 35 W max (Typical 27 W) DC Model +28 V dc @ 1.25 amps max 35 W max (Typical 27 W)

DLNA Type F	HELGA (Class 4)
Dimensions: 11.05 in. x 7.76 in. x 1.97 in. (L x W x H)	Dimensions: 9.5 in. x 6 x 2 in. x 1.97 in. (L x W x H)
Weight: 7.0 lbs (3.2 kg) max	Weight: 2.27 kg / 5 lbs.
Power: +28 VDC @ 150 mA max	Power: 28 VDC from SDU
	Connector: Single TNC female

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