ASPIRE 200
SATELLITE COMMUNICATIONS SYSTEM

A revolution in airborne connectivity that allows you to fly like you live

Honeywell

ASPIRE 200 SATELLITE COMMUNICATIONS SYSTEM

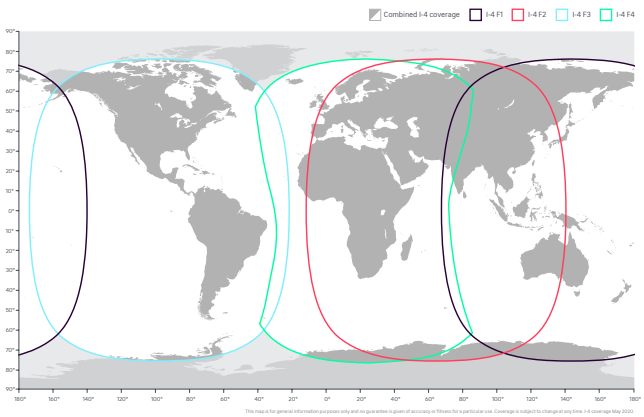
Upgrading your aircraft with Aspire 200 Satellite Communications System provides passengers with a means to always stay connected, which is vital in today's ever-connected world. Passengers can use the system from the moment they board the aircraft until they disembark and therefore they are never out of touch from the office, family or friends. Additionally, Honeywell is uniquely positioned to be a one-stop-shop for connectivity hardware and services.

Aspire 200 provides reliable, consistent connectivity coverage for business aviation and defense customers operating around the world. Elements of the system include a High-speed Data Unit, a Satcom Configuration Module, an integrated High-power/Low-noise Amplifier Diplexer, a router and choice of antenna. The systems are designed with common interfaces for flexible installation options, and ease of upgrade. Aspire 200 Systems are sold in two distinct packages: Aspire 200 Intermediate Gain and Aspire 200 High Gain. Each package provides one channel of SwiftBroadband service, enabling simultaneous cabin phone, internet access, VPN and messaging.

HIGH-DATA RATE (HDR) SOFTWARE UPGRADE

The HDR software upgrade is used to enhance Inmarsat L-band services. The upgrade increases the data rate of a SwiftBroadband channel to 650 Kbps, compared to the to the previous maximum data rate of 432 Kbps with the High Gain Antenna. This cost-effective solution for increasing cabin performance also enables Aspire 200 to be installed on helicopter platforms.

ASPIRE 200 STANDARD SYSTEM BUNDLES

	ASPIRE 200 INTERMEDIATE GAIN (IG)	ASPIRE 200 HIGH GAIN (HG)
System Components	HDU-200 Transceiver SCM AMT-1800 IPLD	HDU-200 Transceiver SCM AMT-700 or AMT-3800 IPLD
Services	One channel of SwiftBroadband voice/multiple simultaneous Background Data Services up to 332kbps and Streaming Data Services up to 128kbps (no HDR) or 500kbps with HDR	One channel of SwiftBroadband voice/multiple simultaneous Data Services up to 432kbps and Streaming Data Services up to 128kbps (no HDR) or 650kbps with HDR
Coverage Area		Inmarsat Class 6 and 7 Coverage

ASPIRE 200 AT A GLANCE

- Lightweight and scalable Inmarsat SBB solution enabling simultaneous voice and high speed data connectivity
- HDR upgrade provides increased bandwidth capabilities and adds robustness to transmit/receive through the rotor wash
- Less expensive to purchase, install and operate than the legacy Satcom systems
- The complete system comprises of the HDU-200 High Speed Data unit (HDU), Integrated High-power, Low-noise Amplifier Diplexer (IPLD), Satcom Configuration Module (SCM), and an antenna. This antenna can be one of 3 options: AMT-700, AMT-1800 or AMT-3800
- Operates during all phases of flight and even while on the ground, unlike ground-based broadband systems that only work above 10,000 feet

Honeywell's range of Inmarsat antennas fits a wide range of aircraft types using a variety of fuselage adapters and radomes.

STANDARD COMPONENTS

High-speed Data Unit (HDU-200)

The Aspire HDU-200 Transceiver (HDU-200) offers one channel of SwiftBroadband service for simultaneous voice and data connectivity with the Inmarsat I-4 satellite network. HDU-200 is designed for flexible installation and can be mounted inside or outside the pressure vessel.

SPECIFICATIONS		
Length	14.8"	37.6 cm
Width	2.4"	6.0 cm
Height	7.8"	19.0 cm
Weight	8.8 lb.	4.0 kg

Integrated High-power/Low-noise Amplifier Diplexer (IPLD)

The Integrated High-power/ Low-noise Amplifier Diplexer (IPLD) connects the HDU-200 to the externally-mounted aircraft antenna. With an integrated higher-power amplifier, it provides optimal performance of the voice and data communication services over SwiftBroadband , even in adverse conditions. The unit's integrated Type F diplexer ensures compliance with SwiftBroadband service requirements. The IPLD is rated for installation outside the pressure vessel.

SPECIFICATIONS		
Length	7.5"	9.05 cm
Width	7.5"	9.05 cm
Height	2.5"	6.35 cm
Weight	5.3 lb.	2.4 kg

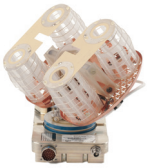
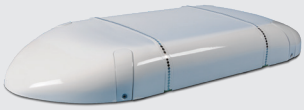
Satcom Configuration Module (SCM)

The Satcom Configuration Module (SCM) connects to the Aspire 200 and is used to store the SDU configuration information. The SCM provides the completion facility, maintenance personnel or operator with the ability to seamlessly replace SDU units without the need to perform any additional reconfiguration.

SPECIFICATIONS		
Length	4.7"	11.94 cm
Width	3.5"	8.89 cm
Height	1.0"	2.54 cm
Weight	0.5 lb.	0.227 kg

ANTENNA OPTIONS

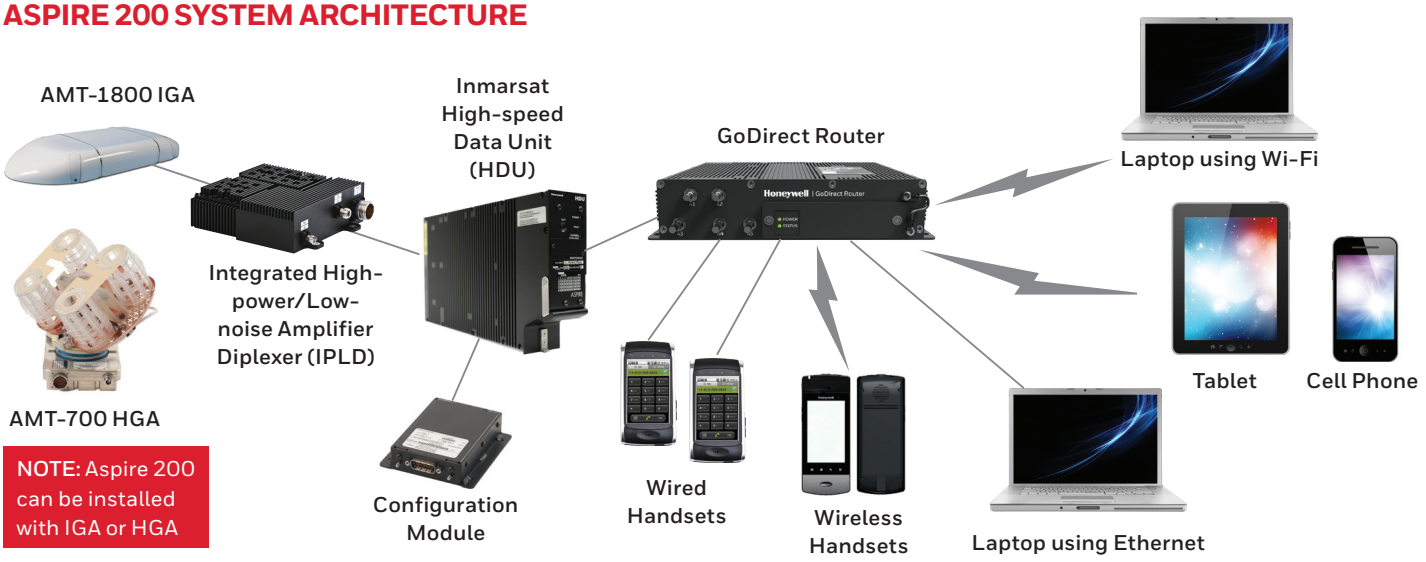
Honeywell's range of Inmarsat antennas fits a wide range of aircraft types using a variety of fuselage adapters and radomes.

ANTENNA	DESCRIPTION	LENGTH	WIDTH	HEIGHT	WEIGHT
AMT-700 High-Gain Antenna (HGA) 	The AMT-700 HGA offers up to 432 kbps of voice and data services. Connected to the IPLD and installed on the empennage of an aircraft's tail, the antenna's technology and design result in the highest gain of any Inmarsat Mechanical HGA — achieving greater than 13.5 dBic over the Inmarsat networks.	10.0" (25.4 cm)	10.0" (25.4 cm)	9.7" (24.64 cm)	4.3 lb (1.95 kg)
AMT-1800 Intermediate Gain Antenna (IGA) 	The AMT-1800 IGA offers up to 332 kbps voice and data services. It operates over the extended L-band frequency range to support operation with the Inmarsat Alphasat satellite. It is a compact, lightweight, top fuselage-mount unit that includes an electronically steered phase array.	18.3" (46.5 cm)	7.6" (19.0 cm)	1.9" (5.0 cm)	6.0 lb (2.7 kg)
AMT-3800 High Gain Antenna (HGA) 	The AMT-3800 is an ARINC 781 high-gain antenna offering up to 432 kbps of voice and data service over the Inmarsat satellite network. It is mounted on top of the fuselage and connects to the IPLD. The antenna's phased array technology maintains gain at very low angles and meets SwiftBroadband Passive Intermodulation (PIM) requirements.	43.0" (109.2 cm)	14.3" (36.3 cm)	2.5" (6.35 cm)	19.8 lb (9.0 kg)

AVAILABLE ROUTER OPTION

ROUTER	DESCRIPTION	LENGTH	WIDTH	HEIGHT	WEIGHT
GoDirect Router	Honeywell's GoDirect Router represents the biggest advancement in aircraft router technology in years. The unit gives you all the speed, performance and reliability of today's best routers in a package that is 65 percent smaller, 45 percent lighter and uses 35 percent less power. The Honeywell GoDirect Router costs 70 percent less than previous-generation routers and can be installed in your aircraft in less than an hour.	8.2" (20.8 cm)	5.6" (14.2 cm)	1.75" (4.4 cm)	Weight - 4.2lbs (1.9 kg)

ASPIRE 200 SYSTEM ARCHITECTURE



NOTE: Aspire 200 can be installed with IGA or HGA

For more information
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THE FUTURE IS WHAT WE MAKE IT

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