

Honeywell

THE POWER OF **CONNECTED**

ASPIRE® 200 SATELLITE COMMUNICATIONS SYSTEM

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




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 one-stop-shop for connectivity hardware and services. Through Honeywell's GoDirect Cabin Connectivity service, we now offer a comprehensive suite of communication services and solutions to deliver unparalleled connectivity and functionality to business aviation operators. This includes access to more than a dozen GoDirect applications and services, as well as real-time TV, TV on demand, high-speed broadband Internet, video conferencing, email and voice over IP (VoIP).

Aspire[®] 200 provides reliable, consistent connectivity coverage for business aviation customers operating around the world. Elements of the system include a High-speed Data Unit, a Satcom Configuration Module, a 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 to SwiftBroadband channels provides up to 650 Kbps per channel compared to the previous maximum data rate of 432 Kbps. This cost-effective solution for increasing cabin performance may be installed by a qualified user or the terminal can be returned to Honeywell for upgrade.

ASPIRE 200 STANDARD SYSTEM BUNDLES		
	Aspire 200 IG	Aspire 200 HG
System Components	HDU-200 Transceiver SCM AMT-1800 IPLD CNX-900 (optional)	HDU-200 Transceiver SCM AMT-700 or AMT-3800 IPLD CNX-900 (optional)
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, plus full Swift 64 redundancy/revisionary operation
Coverage Area	 <p>Inmarsat Class 6 and 7 Coverage</p>	

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 or Swift 64, 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) stores all configuration information for the HDU-200. It gives the operator the ability to seamlessly upgrade a component without the time and effort of reconfiguring the units and reprovisioning the network access.

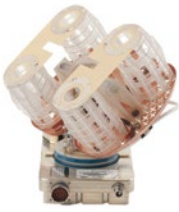
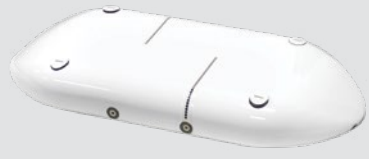



SPECIFICATIONS		
Length	4.7"	11.94 cm
Width	3.5"	8.89 cm
Height	1.0"	2.54 cm
Weight	0.5 lb.	0.227 kg

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

Antenna Options

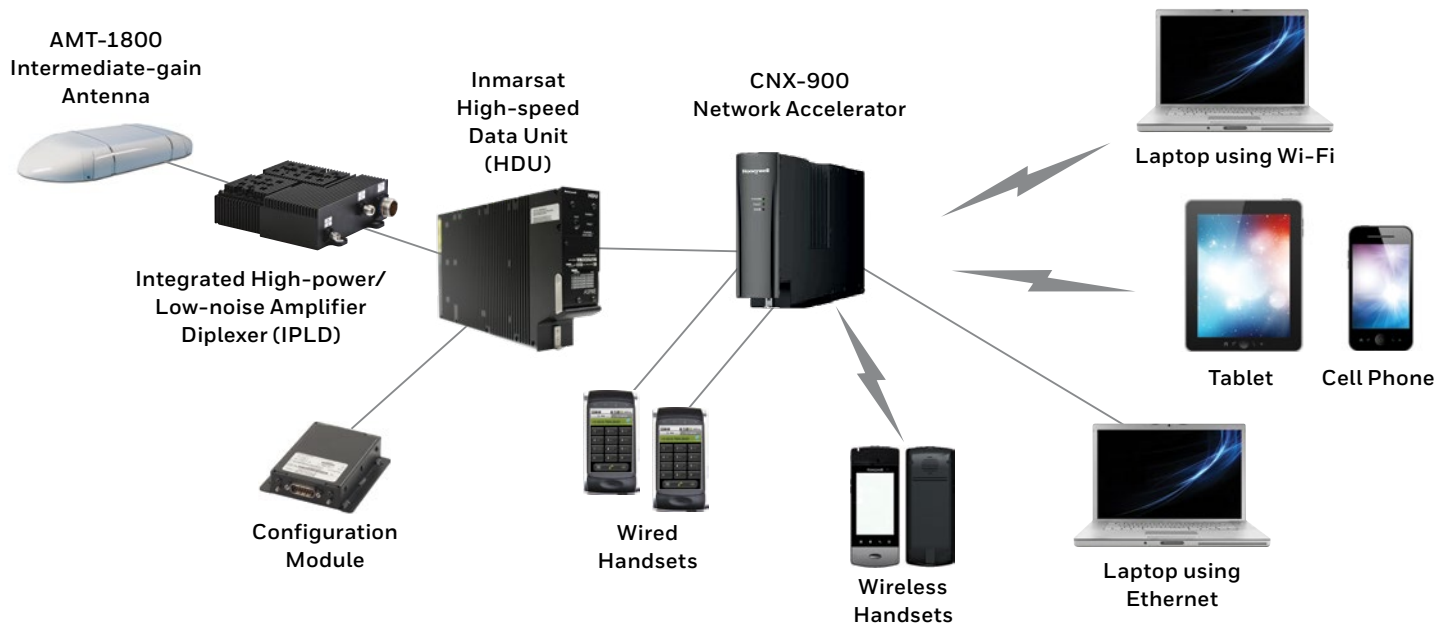
Honeywell's range of Inmarsat antennas fits a wide range of aircraft types using a variety of fuselage adapters and radomes.

Antenna	Description	Length	Width	Height	Weight
 <p>AMT-700 High-Gain Antenna (HGA)</p>	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 (U.S. patent pending) 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)
 <p>AMT-1800 Intermediate Gain Antenna (IGA)</p>	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. The antenna's phased array technology maintains gain at very low angles and meets SwiftBroadband Passive Intermodulation (PIM) requirements.	18.3" (46.5 cm)	7.6" (19.0 cm)	1.9" (5.0 cm)	6.0 lb (2.7 kg)
 <p>AMT-3800 High Gain Antenna (HGA)</p>	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 Options

Router	Description	Length	Width	Height	Weight
Communications Convergence Unit (CCU-200)	The Communications Convergence Unit (CCU-200) is a full-service multi-port router, Wi-Fi® Access Point (802.11 a/b/g) and full-featured PBX (digital and analogue) that supports VoIP, phone directory, call forwarding and three-way calling. The component provides network and telephony connectivity to multiple cabin users with Swift 64, SwiftBroadband systems and offers programmable, digital I/O.	9.0" (22.68 cm)	6.0" (15.24 cm)	1.0" (2.54 cm)	3.97 lb (1.80 kg)
CNX-250	An easy upgrade to the older CCU-100, CCU-200 and CNX®-200, the CNX-250 cabin network accelerator provides all of the same cabin networking functions in a smaller and lighter form factor. The CNX-250 meets the demanding avionics certification requirements while being more cost-effective and delivering exceptional cabin communications.	15.4" (39.1 cm)	3.25" (8.26 cm)	8.7" (22.1 cm)	13 lbs (5.9 kg)
CNX-900	The CNX-900 cabin network router offers passengers the luxury to send and receive emails, host video conferences and surf the web with a secure and wireless connection. It offers more bandwidth, giving everyone onboard more speed so that they're able to download large files, stream videos and connect more devices to the internet.	14.0" (35.6 cm)	2.25" (5.71 cm)	7.75" (19.69 cm)	5.9 lbs (2.68 kg)

Aspire® 200 Intermediate Gain System Diagram



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A60-1412-000-003 | 04/18
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