NETWORK INNOVATIONS

Communicate. Anywhere.

Honeywell Aspire™ 200

Aspire™ 200 Satcom System

Allows passengers and crew to be connected during flight, reduces workload and sends real-time data quickly to and from the aircraft

Possibilities of Connectivity. Made Easy.

Satcom Systems for Helicopters

Helicopter missions require constant connectivity for passengers and crew, both voice and data. When you're beyond line of sight or beyond VHF coverage area, you need dependable, reliable high-speed data connectivity. In challenging environments, low latency voice, real-time data transfer and aircraft tracking empower pilots to complete their missions successfully and safely.

Honeywell is responding to these challenges with our Aspire™ 200 Satcom System for Helicopters. The Aspire 200 satellite communications system offers a broad range of connectivity options to suit a wide variety of requirements. These systems operate on the Inmarsat I-4 satellite network, which has worldwide coverage. With the recently certified high data rate (HDR) upgrade, incorporating a long-burst interleaver, it is now ideal for helicopter operations – especially those on critical emergency medical or SAR missions.

The system is designed with common interfaces that provide flexible installation options and ease of upgrade to further increase the system's capabilities.

Honeywell's performance is unmatched and unparalleled. The Aspire 200 System with HDR can transmit more data, faster than any other L-band system. No matter what your mission — EMS, Law Enforcement, Oil and Gas, Search and Rescue, VIP – or the area of your operations, Aspire 200 System provides a high-speed data connection that is always on.

High Data Rate (HDR) S/W Upgrade

The HDR software upgrade is used to enhanceInmarsat 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 low cost solution for increasing cabin performance also reduces the effects of rotor blockage making it an ideal solution for adding high speed data to helicopters. The HDR software upgrade may be installed by a qualified user or the terminal can be returned to Honeywell for upgrade at an additional cost.

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

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Honeywell Aspire™ 200

Standard Components

High-speed Data Unit (HDU-200)

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

One channel of SwiftBroadband service for simultaneous voice and data connectivity with the Inmarsat I-4 satellite network and fallback to Swift 64 with a high-gain antenna. HDU-200 is designed for flexible installation and can be mounted inside or outside the pressure vessel.

Communications Convergence Unit (CCU-200)

SPECIFICATIONS		
Length	9.0"	22.68 cm
Width	6.0"	15.24 cm
Height	1.0"	2.54 cm
Weight	3.97 lb.	1.80 kg

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. Multi-cabin user connectivity with Swift 64, SwiftBroadband systems.

Satcom Configuration Module (SCM)

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

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.

Standard Components

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

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

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

Antenna Options

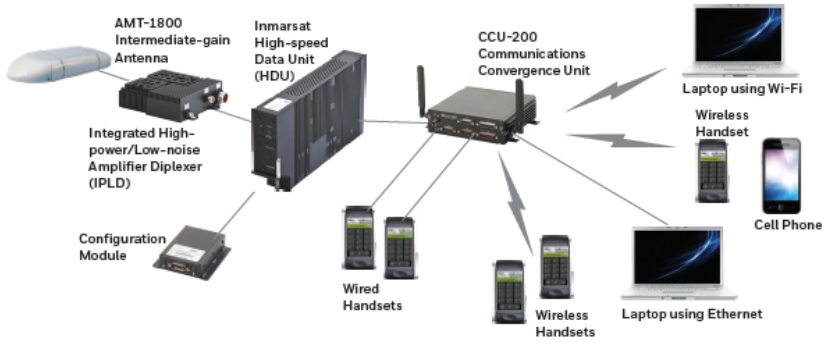
Honeywell's range of Inmarsat antennas fits a wide range of aircraft types using a variety of fuselage adapters and radomes.

AMT-1800 Intermediate-gain Antenna (IGA)

SPECIFICATIONS		
Length	34.5"	87.6 cm
Width	9.5"	24.1 cm
Height	2.5"	6.35 cm
Weight	11.7 lb.	5.3 kg

Smallest available Class 7 ARINC781 intermediate-gain antenna offering up to 332 kbps voice and data service as a part of the Aspire 200 IG communications system. The AMT-1800 IGA operates over the extended L-band frequency range to support operation with the new Inmarsat Alphasat satellite. The antenna's phased array technology maintains gain at very low angles and meets stringent SwiftBroadband Passive Intermodulation (PIM) requirements.

Aspire™ 200 IG System Diagram



Enhance system performance with an optional CNX-250 Network Accelerator

CNX®-250 Network Accelerator

The CNX-250 Cabin Gateway is a multi-port network router with a data accelerator module that acts as the communications hub for all aircraft data links. The appliance increases the number of network users, the strength of encryption and the speed (data acceleration) of a Satcom or ATG system.

Features

The CNX-250 provides a single cabin network based on Ethernet that supports high-speed data and VoIP communications and is scalable to support future growth and system expansion.

- Next Generation Acceleration/ Compression technology
- Multi-WAN support
- 2x ISDN BRI ST
- 3G/4G connectivity (on ground only)
- Wi-Fi ON/OFF discrete
- Streaming class QoS management
- VoIP support with VoIP trunking
- Reliability 30,000 MTBF

Specifications

Length	8.6"	21.59cm
Width	12.7"	35.05cm
With Brackets	15.4"	39.10cm
Height	3.7"	9.40cm
Weight	8.6lbs	3.90kg

NETWORK INNOVATIONS
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