

MCS-7100 Series Satellite Communications



**BECAUSE YOUR BUSINESS
DOESN'T STOP AFTER TAKEOFF**

**Honeywell offers a full
range of SATCOM products**

Honeywell

In today's fast-paced world, people have become wherever they are — at home, in the car, in t

MCS-7100 SATCOM Series with Swift64 and SwiftBroadband

That's why so many business executives have turned to Honeywell for satellite communications. Our SATCOM systems have become renowned for providing world-class voice, data and fax communications.




Honeywell's MCS-7100 Series allows for on-line connections at speeds of 64 Kbps/channel to 432 Kbps/channel, when using either Swift64 or SwiftBroadband. The SwiftBroadband connection allows you an "always on" connection with convenient access to:

- E-mail - use your own laptop and e-mail application without any modifications, for full access to private or corporate e-mail accounts.
- Internet – get the latest news and information by browsing your favorite web sites.
- Corporate network- transfer files to or from your corporate network using the Inmarsat satellite data link networks.
- Video conference – conduct a live video conference while flying anywhere Inmarsat provides service.

MCS-7100 Series Multi-Channel Satellite Communication Family

The MCS-7100 Series is based around the new HD-710. It's scalable architecture allows for an upgrade to any existing Honeywell MCS system to include Swift64 and Swiftbroadband. In addition, the HD-710 can operate as a standalone device supporting Classic Aero voice and Classic Aero data (for safety services), Swift64, SwiftBroadband and Epic interfaces.

Systems Overview

	Size (MCU)	Level D (ATC)	Epic I/O	Cockpit Packet Data Channels	Classic Voice Channels	Potential Configuration	
						Swift64 Channels	Swift Broadband Channels
MCS-7163 retrofit for existing MCS-3/6000	 14-18	✓		1	2/5	2 0	0 2
MCS-7147 retrofit and forward fit for MCS-4/7000	 14	✓	✓	1	3/6	2 0	0 2
MCS-7120 forward fit/retrofit	 8	✓	✓	1	1	0 2	1 0

CNS/ATM environment

SATCOM provides the communications element of the emerging CNS/ATM environment being developed and implemented by the world's air traffic authorities. All of Honeywell's SATCOM systems maintain Level D certification.

The MCS-7100 Series SATCOM augments and/or supersedes the present high frequency (HF) transceiver by supplying higher quality voice service and by supplying data services at higher bit rates needed by datalink (ATN) applications and Future Air Navigation System (FANS) components such as automatic dependent surveillance (ADS), Controller/Pilot Data Link Communications (CPDLC) and the international Airborne Flight Information Systems (AFIS). The benefits offered by FANS include reduced fuel burn and flight time through more efficient routing and increased payload capability.

Some accustomed to being in-touch the office...or flying at 51,000 feet.

MCS-7163

The MCS-7163 is the upgrade path to any existing Honeywell MCS-6000 or MCS-3000 system. This system is a simple retrofit upgrade to Swift64/SwiftBroadband by just replacing the HPA.. The main benefit of this retrofit upgrade is the SDU/RFU remain the same. The HD-710 is a drop-in replacement for the HPA. To utilize Swift64/SwiftBroadband it only requires wiring additions. This is a retrofit for existing MCS-6000 and MCS-3000 systems.

The MCS- 7163 features simultaneous channels of Classic Aero voice, data and Swift64/SwiftBroadband. The HD-710 offers two channels of Swift64 (64 Kbps/channel) or two channels of SwiftBroadband (432 Kbps/channel), in addition to a 60 Watt linear High Power Amplifier.

So overall, it's a simple retrofit upgrade to Swift64/SwiftBroadband by just replacing the HPA.



MCS-7163

MCS-7147

The MCS-7147 is the upgrade path to any existing Honeywell MCS-4000 or MCS-7000 system. This system is a simple retrofit upgrade to Swift64/SwiftBroadband by just replacing the HPA.. The main benefit of this retrofit upgrade is the SDU remains the same. The HD-710 is a drop-in replacement for the HPA. To utilize Swift64/Swift Broadband it only requires wiring additions. This is a retrofit for existing MCS-4000 and MCS-7000 systems.

The MCS- 7147 features simultaneous channels of Classic Aero voice, data and Swift64/SwiftBroadband. The HD-710 offers two channels of Swift64 (64 Kbps/channel) or two channels of SwiftBroadband (432 Kbps/channel), in addition to a 60 Watt linear High Power Amplifier.

The MCS-7147 utilizes all existing Epic cockpit voice, operational control, and display interfaces thus eliminating new integration efforts.

So overall, it's a simple retrofit upgrade to Swift64/SwiftBroadband by just replacing the HPA.



MCS-7147

MCS-7120

In an effort to better support the business aviation fleet, the MCS-7120 offers a single LRU (8 MCU) solution. This single integrated solution combines the functionality of the Satellite Data Unit, High Speed Data Unit, and High Power Amplifier, utilizing established avionics interfaces with the latest SATCOM technology. The MCS-7120 utilizes all existing Epic cockpit voice, operational control, and display interfaces thus eliminating all new integration efforts.

The MCS-7120 system offers a flexible architecture of up to four channels supporting Classic Aero services and Swift64/SwiftBroadband. A typical configuration would include, 1 Classic Aero voice channel, 1 Classic Aero data, and 2 channels of Swift64 (64Kbps/channel) which would become 1 channel of SwiftBroadband (432Kbps/channel).



MCS-7120

Honeywell Aerospace

Honeywell is a leading global provider of integrated avionics, wheels and brakes, engines, systems and service solutions for aircraft manufactures, airlines, business and general aviation, military, space and airport operations.

Global Customer Support

Honeywell provides avionics support solutions worldwide, including repair and overhaul, spare parts and exchange pools, pre-owned equipment, technical support, integrated service programs, technical publications, and training for airlines, business aviation and general aviation. The total mix of Honeywell Customer Services is tailored to meet individual customer needs.

HD-710 Offering

System	Description	Part Number
MCS-7147 MCS-7163	HD-710 Combined Mode with existing MCS system adds 2 channel Swift64	1252-A-3600-01
MCS-7120	HD-710 Standalone Classic Aero/Swift64	1252-A-3700-01
MCS-7120	HD-710 Epic Add Epic interfaces to standalone version listed above (1252-A-3700-01)	1252-A-3700-03
MCS-7163 MCS-7147 MCS-7120	SwiftBroadband Software update to any HD-710	1252-A-3700-04

Specifications

Components	Size	Weight	Power	Operating Temperature
MCS-7163 (Upgrade)* HD-710 *SDU/RFU already exist	8MCU	34.5 lbs	28 vdc/115 vac 400hz	-55° to + 70° F
MCS-7147 (Upgrade)* HD-710 *SDU already exists	8MCU	34.5 lbs	28 vdc/115 vac 400hz	-55° to + 70° F
MCS-7147 SDU HD-710	6MCU 8MCU	25.0 lbs 34.5 lbs	28 vdc/115 vac 400hz 28 vdc/115 vac 400hz	-55° to + 70° F -55° to + 70° F
MCS-7120 HD-710	8MCU	34.5 lbs	28 vdc/115 vac 400hz	-55° to + 70° F

Honeywell Aerospace

1944 E. Sky Harbor Circle
Phoenix, AZ 85034

U.S. Toll Free: 1.800.601.3099

International Tel: 602.365.3099

EMEA Toll Free: 00.800.601.30999

EMEA Direct Dial: 420.234.625.500

www.honeywell.com

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