

# Rockwell Collins GMS-4100 Global In-Flight Message Server



## Surf in the sky with Internet access for mobile devices in any size aircraft

In today's 24/7 world, travelers can't afford to be out of the loop, even in the air. The Rockwell Collins Global In-Flight Message Server (GMS-4100) enables passengers of any size aircraft to access email and the Internet, wherever they fly. Via the GMS-4100, any airborne Wi-Fi® capable personal device such as BlackBerry® Smartphones and iPhone® mobile digital devices can

access the Internet to send and receive email and browse the Web via a Wireless Access Point (WAP) and DHCP server integrated into the aircraft cabin. A Rockwell Collins Swift Broadband channel or a single, inexpensive, Iridium® channel connects the aircraft worldwide – a connection managed efficiently and automatically to optimize “on-air” time and related cost. Its price and integration with existing communication systems make it a practical solution for small to intermediate size aircraft where previous installations were prohibitively expensive or highly impractical.

The GMS-4100 has various interfaces including serial ports, a fax dialup data interface, Ethernet, and USB. The GMS4100 provides internal router functions and an HTTP server to permit access of up to 10 user devices, offering a truly wireless system for the business aircraft cabin. Multiple serial interfaces with port management, permit connections of several RS-232 devices without the risk of port contention, collisions or data corruption. Devices are automatically assigned an IP address by the DHCP server to provide immediate access to the system without user intervention or set-up beyond what is required with any Wi-Fi network.

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## GMS SPECIFICATIONS

### Chassis (L x W x H)

Flange mount 4 screws	12.23 in x 5.64 in x 3.1 in (31 cm x 14.3 cm x 7.9 cm)
Weight	3.2 lbs., 1.45 Kg
Prime power	28 VDC
Power consumption	600 ma. max. @ 28 VDC
Temperature	0°C to +35°C
Altitude	15,000 ft.
Vibration	Tested to Category 5
Serial port connectors	D-Sub DB-9

### Serial ports

Subscriber ports	Four (4) RS-232 Async.
Network ports	Two (2) RS-232 Async.
Call control	Hardware RT S/CTS control
Connections	Standard 9-pin serial
Port management	Internal Logic Control
Connector type	D-Sub DB-9

### Fax port

Circuit	2-wire tip and Ring Telco circuit
Telco line	48 VDC loop battery
Ringer	20 HZ, 80 VRMS
Impedance	600 Ohm
Connector type	D-Sub DB-9

### Wi-Fi port

Protocol	IEEE 802.11b
Wi-Fi Transmit Power	Fully configurable from 7 to 23 dBm
Maximum Devices	10

### Ethernet port

Protocol	802.3u
Speed	10/100 Mbytes/sec.
Connector Type	D-Sub DB-9 (Cat 5 equivalent)

### USB port

Device types	Configurable: printer, serial port, Ethernet
Speed	USB1.1, 2MBPS
Connector type	D-Sub DB-9; standard USB signals

## FEATURES

- Store and forward faxing via Inmarsat and Iridium networks
- Configuration and control access via the Ethernet or Wi-Fi port and a standard web browser
- Built-in routing functions.
- IP addresses automatically assigned via DHCP
- Wi-Fi via 802.11b provides access for up to 10 users to access system at one time
- LED indicators displaying port and system status
- Up to four (4) RS-232 subscriber ports and up to two (2) RS-232 network ports available for delivery of data traffic
- Allows multiple users to access the device via the Wi-Fi port or an onboard Ethernet switch
- Enables ground-to-air email to be delivered to and printed by the aircraft's onboard fax machine

## MINIMUM AIRCRAFT INSTALLATION REQUIREMENTS

- Rockwell Collins GMS-4100 with installation kit
- Rockwell Collins IRT-2110/IRT-2120 Iridium Communication System or
- Rockwell Collins Swift Broadband Inmarsat Communication System

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Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

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