



# SD CABIN **NETWORKING SOLUTIONS**

RAISING THE STANDARD FOR IN-FLIGHT CONNECTIVITY







## THE SDR SERIES

---

The Satcom Direct (SD) SDR Series of products—the SDR® and SDR Gateway—provide the ultimate flexibility in connectivity for the business jet cabin, enabling robust communications for owners, operators, passengers and crew. Supporting multiple satellite and air to ground (ATG) connections simultaneously, SDR Series systems transition across networks wherever possible to limit connectivity interruptions. The SDR Series is designed to work seamlessly with passenger devices.

Going far beyond connecting onboard systems, the SDR series allows you to make and receive calls, text, email, connect to the internet and stream data, using a combination of the best technology and services available—whenever and wherever the aircraft flies.

### SDR SERIES FEATURES

- Supports all satellite-based connections (L-band, Ka, Ku, X) and ATG
- Talk, text, email, browse or stream
- Office in the sky experience
- Cellular data
- VoIP calling



# THE SDR

## A POWERFUL CONDUIT FOR AIRCRAFT PERFORMANCE DATA AND SD ENHANCED SERVICES

---

The SDR is a connectivity platform that optimizes the onboard internet experience, enabling laptops, tablets and smartphones to do their jobs to maintain productivity at every altitude. Global One IP, available only on the SDR Series, delivers a smooth transition between satellite networks, and continuous software updates—always included—mean the latest technological advancements are available. Providing a secure and reliable wireless connection, passengers can make and receive calls, text, email, connect to the internet and stream video.

The advanced SDR technology automatically selects the best connection available—on the ground or in the air—always keeping you connected. It offers acceleration, Geo-Referencing and a fully integrated PBX for both wired and wireless voice capabilities. The SDR interfaces with onboard avionics allowing it to extract operational data from the airplane, such as telemetry and position data, providing useful aircraft performance information.

### SELECT SDR TECHNICAL FEATURES

- Satellite ready solution for L-Band, Ku-Band, Ka-Band, X-Band, and ATG communications
- Gigabit Ethernet Support for WAN, LAN and cabin connectivity
- 802.11n Dual-Band (2.4 + 5.0 GHz) WiFi
- ISDN Support
- Cellular Data Capable with 3G data support for Internet access on the ground and remote support
- Multiple WiFi network support allows for separate guest and/or VIP networks
- ARINC 429 interfaces for location services, flight tracking/moving maps, and/or avionics monitoring
- Customizable Discrete I/O Support
- Mounting provision: Flange





# SDR GATEWAY

## A FIT FOR EVERY NEED AND STYLE

---



The SDR Gateway is a single configurable unit that lets users tailor the system to fit specific requirements. Features range from simple voice capabilities to full-on office capabilities—including popular telephony applications, 4G/LTE mobile communications services, and aviation certified WiFi. The SDR Gateway features advanced processing power for the high performance expected by aircraft owners and operators. It is lightweight, and compact for ease of installation, and offers a simplified upgrade path.

### SELECT SDR GATEWAY TECHNICAL FEATURES

- Two Channels of Iridium voice, ISDN and FAX capabilities
- VoIP (Voice over IP) support
- Cellular Data Capable with 4G LTE on ground
- MIMO Capable
- Aviation Certified 802.11 n/ac WiFi capability
- Integrated PBX and advanced IP-based router
- 2-Wire Support and 4-Wire flight deck voice interface
- CEPT E1 Interfaces
- ARINC 429 Interface
- Mounting Provision: ARINC 600 2MCU Rack
- Internal Storage up to 1TB





# THE HUB SERIES

## THE FASTEST AND SMALLEST WIRELESS ACCESS POINTS AVAILABLE

The SD Hub Series packs big technology into small, easily installed packages. For speed and range, the LTE Hubs are built for single SATCOM/ATG support or support of the SDR series in long range and larger aircraft.

### HUB SERIES FEATURES

- Size: 5.6 x 5.5 x 1 (31 in<sup>3</sup>); 14.2 x 14 x 2.5 (508 cm<sup>3</sup>)
- Weight: 1.6 lbs (.73 kg)
- Power: 28V DC
- VOIP Calling
- 3 Gigabit Ethernet Ports
- DO-160G Qualified
- DO-178B Level E
- Mounting Provision: Flange





## SD WIFI HUB 2.0

### A WIFI POWERHOUSE

The SD WiFi Hub 2.0 is a perfect complement to the SDR Series for ultra-long range aircraft. Designed to operate as an extension to the SDR Series products, the SD WiFi Hub 2.0 adds functionality for and enhances the performance of the SDR. It provides up to an additional 900Mbps data rates to the cabin with both 2.4 and 5 GHz 802.11 a/b/g/n/ac radios. The Hub expands capability and adds additional interfaces where they are needed, simplifying installation and improving WiFi coverage in the cabin. The SD WiFi Hub 2.0 supports high definition media products and applications for all passengers, eliminating buffering and gaps in cabin coverage.

The SD WiFi Hub 2.0 can also act as a powerful stand-alone router solution for small and mid-size aircraft.

#### SELECT WIFI HUB TECHNICAL FEATURES

- Radios: 2x Dual Band 2.4 and 5GHz, 802.11a/b/g/n/ac, 2x2 MiMo
- Antenna: Up to 4 (900 Mbps) for WiFi



## SD LTE HUB

### FASTEST WIRELESS ACCESS POINT WITH CELLULAR LTE CONNECTIVITY

The LTE Hub is the smallest aircraft router with cellular LTE-A connectivity and the industry's fastest available 802.11a/b/g/n/ac wireless access point. The robust LTE Hub provides not only higher speeds and data rates up to 867 Mbps, but also offers a broader range. The LTE Hub can meet the needs of small to mid-range aircraft looking for a single bearer SATCOM/ATG router and can also pair with the SDR or SDR Gateway for ultra-long range aircraft.

#### SELECT LTE HUB TECHNICAL FEATURES

- WiFi Radio: Dual Band 2.4 or 5GHz 802.11a/b/g/n/ac, 2x2 MiMo
- LTE-A Radio: Cat6 LTE 300 Mbps downlink, 50Mbps uplink
- Antennas: Up to 2 (867Mbps) for WiFi: 1 for LTE
- 64GB internal storage
- On Ground, In-Air, In-Cabin Connectivity all-in-one!



# WHICH SYSTEM IS RIGHT FOR YOU?

SD hardware systems fit a wide variety of aircraft and passenger and crew needs. Compare various hardware systems to discover which system is best for you.

Features	SD WiFi Hub 2.0	SD LTE Hub	Satcom Direct Router (SDR®)	SDR Gateway
Which SD Hardware product is the best fit for your aircraft?	Small to mid-size aircraft; can pair with SDR/SDR Gateway	Small to mid-size aircraft; can pair with SDR/SDR Gateway	Mid to large body aircraft	Mid to large body aircraft
ARINC 429	+	+	+	+
Customizable Discretes	+	+	+	+
SD Pro	+	+	+	+
Moving Map	+	+	+	+
Gogo ATG WAN Support	+	+	+	+
SATCOM/ATG	+ (Single)	+ (Single)	+ (Multiple)	+ (Multiple)
CMS Integration	+	+	+	+
Acceleration	+	+	+	+
MIMO	+	+		+
802.1Q VLAN Tagging	+	+	+	+
802.11 a/b/g/n	+	+	+	+
802.11 ac	+	+		+
Cellular Data		+ (LTE)	+ (3G)	+ (LTE)
Internal Storage		+	+	+
Global One IP (GOIP)		+	+	+
ISDN (Integrated Services Digital Network) Voice calling and Data			+	+
Customizable Config Module			+	+
Multi-SIM Card Support			+	+
Telephony PBX Support			+	+
Channel Bonding (SBB)			+	+
VRRP (Virtual Router Redundancy Protocol)			+	+
CEPT E1 (Voice calling through handsets)			+	+
Iridium Integrated (Dual channels)				+
2-Wire / 4-Wire Flight Deck Voice Interface				+
P/N	900023	900021	1233-F-2191-10	TN2000-7772
Size (LxWxH)	6.7" x 5.79" x 1" (17.02cm x 14.71cm x 2.54cm)	6.7" x 5.79" x 1" (17.02cm x 14.71cm x 2.54cm)	12.7" x 8.5" x 3.7" (32.26cm x 21.59cm x 9.40cm)	14.8" x 2.25" x 7.8" (37.59cm x 5.72cm x 19.81cm)
Weight	1.6lbs (0.723 kg)	1.6lbs (0.723kg)	8.6lbs (3.900kg)	7.5lbs (3.402kg)
Mounting Provision	Flange	Flange	Flange	2 MCU
Power Consumption (w)	8	8	40	40



# THE CONNECTED FLIGHT DEPARTMENT

Replace your whiteboard with a revolutionary cloud-based dashboard. SD Pro integrates with SD hardware for enhanced visibility and management of data consumption.



## SD Pro®

SD Pro synchronizes the flight department with the aircraft through a simple, centralized, automated dashboard with a single, secure login. The single source for your flight department, whether your team operates one aircraft or a large fleet, SD Pro's innovative technology combines third party and Satcom Direct proprietary data in a single web-based platform. Your team is always mission ready and in sync because SD Pro's standard offering has key management elements designed to help streamline processes and increase efficiency. With a digital search capability that streamlines reporting, its customizable dashboard accommodates the most diverse requirements for a simple to use, effective user experience. And because it's cloud-based, users always have the latest version. SD Pro helps flight teams control costs, manage maintenance schedules, and monitor aircraft cycles.

## WANT TO LEARN MORE ABOUT SD CABIN NETWORKING SOLUTIONS?

Call us: +1 321.777.3000

Email us: [sales@satcomdirect.com](mailto:sales@satcomdirect.com)

Visit us: [satcomdirect.com](http://satcomdirect.com)