



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, and the future of airborne communications for owners, operators, passengers and crew. Supporting multiple simultaneous satellite and air to ground (ATG) connections at the same time, SDR Series systems transition seamlessly across networks wherever possible to limit connectivity interruptions. The SDR Series is designed to work seamlessly with passenger devices—current and future.

Going far beyond connecting onboard systems, 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
- Your smartphone, your number
- 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 seamless 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, whenever and wherever you fly.

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. This product is a gateway to the full spectrum of SD's value-added cabin services including GlobalVT®, which allows passengers and crew to use their own smartphone in-flight, just as you would on the ground.

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 purchasers 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.

The SDR Gateway's small footprint and range of capabilities means more aircraft owners can benefit from in-flight connectivity, including long range- to ultra long range-jets.

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 a/b/g/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 Hub is built for single SATCOM/ATG support.

HUB SERIES FEATURES

- Size: 5.6 x 5.5 x 1 (31 in³); 14.2 x 14 x 2.5 (508 cm³)
- 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: A WIFI POWERHOUSE

The SD WiFi Hub 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 adds functionality for and enhances the performance of the SDR (Satcom Direct Router). 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 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 supports high definition media products and applications for all passengers, eliminating buffering and gaps in cabin coverage.

SD WiFi Hub 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 + 5GHz, 802.11a/b/g/n, 3x3 MiMo
- Antenna: Up to 6 (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 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	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
GlobalVT®	✈	✈	✈	✈
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	✈ (Hub 2.0)	✈		✈
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)			✈	✈
Enhanced ARINC 429 (ForeFlight Synthetic Vision)			✈	✈
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	900020	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

✈ Planned for Q2 2018

THE CONNECTED FLIGHT DEPARTMENT

Replace your whiteboard with a revolutionary web-based dashboard.
SD Pro is a comprehensive tool for managing aircraft—be it one or a fleet.



SD PRO®

SD Pro synchronizes the flight department with the aircraft through a simple, centralized, automated dashboard with a single, secure web-based 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 help 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 since its web-based, users always have the latest version. SD Pro's dashboard helps flight teams control costs, manage maintenance schedules, and monitor aircraft cycles.

WANT TO LEARN MORE ABOUT SD CABIN NETWORKING SOLUTIONS?

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