

Iridium® Communications Systems



Global communications
Dual- and single-channel voice/data
MCDU dialing
Dedicated ACARS channel
Interface with cockpit audio system

Rockwell Collins Satellite Communications Systems utilizing the Iridium network are designed specifically to provide flight crews with reliable voice and data communications over the global Iridium satellite network. The IRT-2110 is a dual-channel device that incorporates a single Iridium transceiver (LBT) for global voice and data communications and a Short Burst Data (SBD) modem dedicated to data link services. The IRT-2120 is a three-channel device that combines dual LBTs providing two channels of global voice and data communications with the SBD modem. The IRT-2110 and IRT-2120 provide connections to customary and standard flight deck voice and data systems. Both systems support Future Air Navigation System (FANS) and Aircraft Communications Addressing and Reporting System (ACARS) requirements.

These devices offer telecom connections flexibility via conventional telephony devices through either standard 2-wire "Tip and Ring" circuits or 4-wire audio connections. Our comprehensive telecom features include intercom calling, call transfer, conferencing and follow-on dialing. It meets all of the standards and compliances to support installations and certification on any aircraft model. Rockwell Collins Iridium transceivers operate with the Rockwell Collins Iridium Configuration Module (ICM-2100), a separate device which holds the Iridium SIM cards and the system configuration information.

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IRT SPECIFICATIONS

Voice and data circuits

IRT 2110 (1 ea.) Iridium LBTs
IRT 2120 (2 ea.) Iridium LBTs
(1 ea.) Short Burst Data (SBD) modem
(4 ea.) 2-wire "Tip and Ring" telephony ports
(6 ea.) ARINC 429 receive circuits (low- or high-speed configurable)
(3 ea.) ARINC 429 transmit circuits
(8 ea.) Discrete input circuits (software configurable)
(8 ea.) Relay driven output circuits (configurable)
(2 ea.) 4-wire audio circuits with hook and ring signals
(1 ea.) RS-232 serial data port
(1 ea.) Serial port for connection to External Configuration Storage (CISI) device
2 DPL circuits for connection to external SIM reader (ICG CIM)
(1 ea.) RJ-11 test jack
(1 ea.) USB maintenance jack

Telephony/audio services

Three-party conferencing
Intercom calling
Automatic Gain Control (AGC)
Digital echo suppression for 2-wire telephone circuits.
Follow-on dialing (not included in MCDU dialed calls)

Chassis (L x W x H)

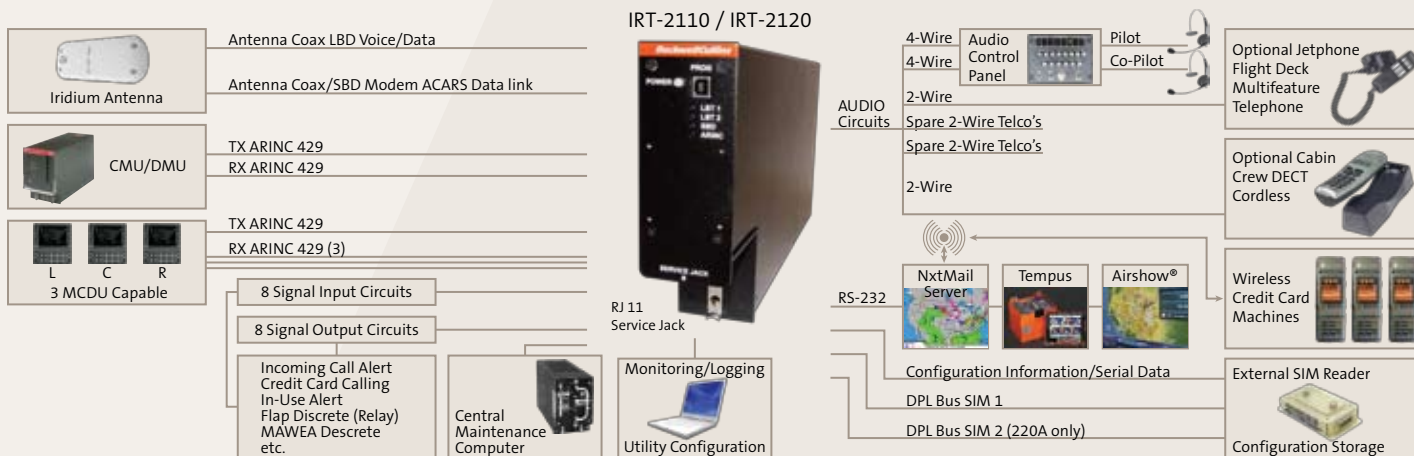
Standard 2 MCU rack 15.68 in x 2.25 in x 7.6 in
(39.83 cm x 5.72 cm x 19.3 cm)

IRT 2110 Weight (2 MCU rack) 5.9 lbs (2.7 kg)
IRT 2120 Weight (2 MCU rack) 6.8 lbs (3.1 kg)
Weight (2 MCU tray) 2.0 lbs (0.9 kg)
Prime power 28 VDC
LRU connector ARINC 600 size 1
Temperature -55°C to +70°C storage
-40°C to +55°C operating
Altitude 55,000 ft
Vibration S2
Additional circuits External Configuration Module and SIM reader

Compliance standards

ARINC 741/761 Data Link Over SATCOM Standard
ARINC 739a MCDU Interoperation Standard
ARINC 618 ACARS Messaging Standard
ARINC 429 HS or LS Data-Bus Standard
DO-160E Environmental, compliant to D1
ARINC AQP testing compliant

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



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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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