



IRT-NX SATCOM SYSTEM FOR IRIDIUM®

HIGHER DATA SPEEDS AND LOWER SERVICE COSTS

Reliable SATCOM offering outstanding benefits

Connect with Collins Aerospace to take advantage of the Iridium® global constellation of more than 70 satellites for your airborne broadband needs. As a service provider for Iridium's satellite solutions, Collins can help you meet your SATCOM requirements with high data rate capability and lower weight, drag and power usage than with other SATCOM offerings.

With over 3,000 legacy Iridium systems fielded already, we're adding Iridium Certus® services to our comprehensive suite of aircraft connectivity applications for commercial, government and ARINC DirectSM business customers. Current data rates up to 352 kbps with future planned upgrades to 704 kbps and, when available from Iridium, up to 1.4 Mbps.

WHAT'S NEXT?

Iridium replaced legacy GEN 1 constellation. Collins existing block 1 terminals are already connected to the Iridium network. When your aircraft accesses the new constellation through the IRT-NX SATCOM system, you can take advantage of higher data rates and safety services for operations worldwide.

Other benefits associated with our IRT-NX SATCOM system for Iridium terminals and antennas include lower weight, an antenna footprint with minimum drag, lower power usage and no JTAB test requirement.

MUCH MORE THAN A SERVICE PROVIDER

The level of experience we bring to airborne connectivity is high. We continue to invest in VHF, HF and satellite communication products and are a value-added manufacturer for the design and production of Iridium Certus service systems.

You can count on highly reliable and robust solutions, along with superior customer service.

KEY FEATURES AND BENEFITS

- Safety services (two ATS voice + FANS data)
- Segregated safety/non-safety channels
- Iridium Certus SATCOM services – Higher bandwidth with lower costs
- Scalable system from 22 kbps to 704 kbps (potential of up to 1.4 Mbps when service is available from Iridium)
- On-wing security key generation
- Scalable satellite data unit (SDU) architecture for upgrades
- Small form factor with a range of antenna gains

TIMING AND EQUIPAGE

- Iridium satellite system is now deployed
- Equipped with AireonSM services
 - ADS-B Out, ALERT and GlobalBeacon
- IRT-NX SATCOM system available approximately 2022



SPECIFICATIONS

IRT-4000 satellite data unit

- Weight: 7.7 lbs.
- Size: 15.256" x 2.430" x 7.877"
- Power*: 28 VDC
- Top-level assembly: 822-3585-100
- Installation drawing: 653-4690-001

ICM-4000 satellite configuration module

- Top-level assembly: 822-3584-001
- Installation drawing: 653-4691-001
- Size: 3.300" x 4.015" x 1.015"
- Weight: Approx. 0.5 lbs.
- Input power: 12 +/- 0.56 VDC
- Power dissipation: 1.0 W

LGA-4000 low-gain antenna

- Weight: <2 lbs.
- Size: 10.7" x 5.5" x 3.35"
- Power*: <40 W
- Top-level assembly: 822-3587-001
- Installation drawing: 653-4462-001
- ARINC 771 #4 footprint hole pattern

HGA-4000 high-gain antenna

- Weight: <7 lbs.
- Size: 13.0" x 5.5" x 3.35"
- Power*: <80 W
- Top-level assembly: 822-3586-001
- Installation drawing: 653-4690-001
- ARINC 771 #4 footprint hole pattern

Product	Safety services	Voice channel		Overall data rate (kbps)	Domains	Antenna
		Analog	VOIP			
IRT-4010 (light)	yes	2	0	22	ACD & AISD	Active LGA
IRT-4100 (low)	yes	2	1	88	ACD & AISD	Active LGA
IRT-4200 (medium)	yes	2	1	176	ACD & AISD	Active LGA
IRT-4300 (high)	yes	2	1	352	ACD & AISD	Active HGA

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Specifications subject to change without notice.

* System power consumption is 125 W. This is due to the antenna being powered through the SDU per ARINC 771 – a change from legacy Iridium products.



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