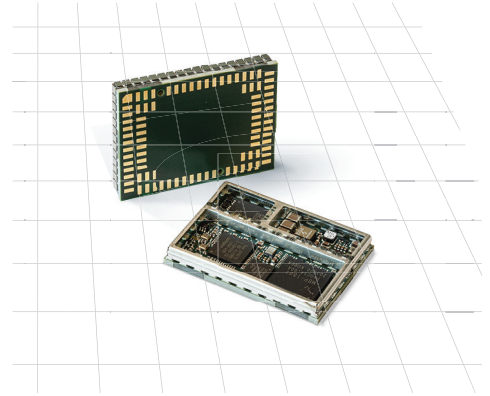


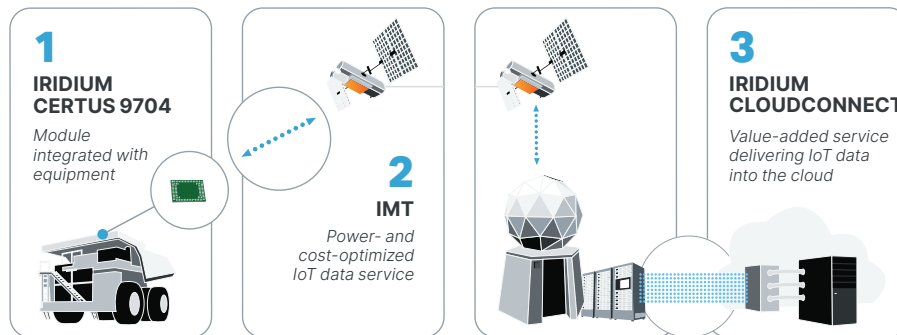
IRIDIUM CERTUS™ 9704 IOT TRANSCEIVER

Dedicated Hardware for Iridium Messaging Transport® (IMT®)

Built into an ultra-slim module, the latest evolution of IoT integrates with industrial solutions of any scale to deliver cloud-ready data over Iridium's truly global satellite network.



The Iridium Certus 9704 transceiver streamlines fragmented development stages and solves three major challenges holding back scaled IoT projects: hardware design complexity, unreliable network coverage, and poor data orchestration. The new Iridium® transceiver is engineered within a complete IoT ecosystem that bridges hardware, software, connectivity, and data management. Iridium Certus 9704 offers reliable satellite IoT connectivity supported by cloud infrastructure, allowing users to convert data into actionable business intelligence and measurable results.



ADVANTAGES

- ✓ **2-SQUARE-INCH FOOTPRINT FOR EASY INTEGRATION**
- ✓ **LOW POWER SPECS FOR ACTIVE AND IDLE MODES**
- ✓ **DESIGNED TO WORK WITH SMALL-APERTURE ANTENNAS**
- ✓ **MADE TO DELIVER 10+ YEARS OF CONTINUOUS SERVICE**
- ✓ **IDEAL FOR HARD-TO-REACH, REMOTE DEPLOYMENTS**
- ✓ **100 KB MAX MESSAGE SIZE THROUGH COST-EFFECTIVE IMT SERVICE**
- ✓ **ENABLES MOBILE OR FIXED SOLUTIONS OF ANY SCALE**
- ✓ **GENERATES UNIVERSAL, CLOUD-READY DATA FORMAT**

HARDWARE MADE EASY

Iridium Certus 9704 packs the power of truly global satellite coverage in a sleek form factor without cables or added parts — just a single component soldered directly onto the developer(PCB)using(Land)Grid(Array)(LGA))technology.)A)durable(surface)mount)coupled) with minimal profile height allows developers to build compact, rugged, and versatile devices powered by the Iridium network.

ONE NETWORK, ANYWHERE

Iridium Certus 9704 grants access to a satellite network reachable anywhere on Earth, even polar regions. For distributed IoT devices, Iridium Certus 9704 offers a steady connection without the unpredictable costs of complex multi-network deployments. Utilizing 66 Iridium satellites, cross-linked pole to pole, users can avoid roaming issues, critical coverage gaps, and the hidden tolls that network-jumping takes on hardware power efficiency and overall service life.

THE IRIDIUM NETWORK

- Interlinked satellite mesh
- Low-Earth orbit
- Truly global
- Low latency
- L-band



■ IMT: THE FUTURE IS NOW

Iridium) Certus) 9704) exclusively) supports) IMT) — a) new) format) of) cloud-native,) server-device messaging that optimizes the capabilities of the Iridium network to match increasing demand in industrial IoT. A cutting-edge evolution of Iridium Short Burst Data® (SBD®), IMT replaces proprietary Iridium protocols with industry-standard message constructs (hubs,) pub/sub,) or queues) and offers more cost-effective payloads for machine-to-machine(M2M)IoT applications.)Engineered to reflect the universal trends of industrial IoT and maximize the cloud potential in connected solutions, IMT is centered on advanced hardware - and network-efficient methods for carrying IoT data. The endpoint of the data journey and ensuring successful transfer into the cloud rests on Iridium CloudConnect, a value-added service developed in partnership with Amazon Web Services. Iridium CloudConnect is a free enhancement to IMT for users who want actionable insights and business value.



LARGER DATA
REMOTE WORKERS
/ ADVENTURERS



SMALL SIZE / WEIGHT
TRACKING,
COMMAND & CONTROL



MINIMAL MAINTENANCE
SCADA READINGS

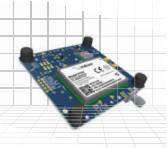


AUTONOMOUS OPERATION
HEAVY EQUIPMENT
TELEMETRY

Mechanical		
	Dimensions	31.5)mm)X)42.0)mm)x)3.9)mm)(L)x)W)x)H)
	Weight	9.7 g
	PCB connection	Standard SMT via Land Grid Array Dx
Power		
Recomm.)normal) operating voltage	V_BAT_MAIN)(Min/Typ/Max)	3.5 V / 3.7 V / 4.5 V
	V_BAT_PA)(Min/Typ/Max)	3.5 V / 3.7 V / 4.5 V
	V_IO)(Min/Max)	1.8)V)/)3.3)V
Max. normal operating current	V_BAT_MAIN)(Max)	1600 mA
	V_BAT_PA)(Max)	7A
	V_IO)(Max)	250)mA
Average power for idle (over)several)seconds)	V_BAT_MAIN)(Typ)	40 mW
	V_BAT_PA)(Typ)	0 mW
Average power for IMT (over time)	V_BAT_MAIN)(Typ)	300 mW
	V_BAT_PA)(Typ)	600 mW
RF Interfaces		
Antenna connection (XCVR_RF)	Antenna type	Ceramic patch or helical
	Frequency range	1616-1626.5)MHz
	Duplexing method	TDD
	Input/Output impedance	50 Ohm
	Multiplexing method	TDMA / FDMA
GNSS Passthrough (GNSS_RF_OUT)	GNSS bands	1559-1610)MHz
	GNSS)passthrough)gain)(Min/Typ/Max)	4 dB / 7 dB / 10 dB
	Output impedance	50 Ohm
Connectivity		
	Network type	Low-Earth Orbit, L-band
	Satellite service	Iridium Messaging Transport
	Service type	Connectionless, store-and-forward
	Max. message size	100 kB
Environmental		
	Operating temperature	-40°)to)+85°)C)(incl.)self)heating)
	Storage temperature	-40°)to)+125°)C
	MSL	Level 3
Regulatory		
	Certifications	FCC,)EU/CE,)Canada)(ISED)

IRIDIUM CERTUS 9704: HDK & SDK

Comprehensive, Arduino-based developer testing environment



GET STARTED

For general questions and product details, please contact your Iridium representative or sales@iridium.com.