

Iridium® IoT Modules

COMPARISON CHART



	Iridium 9602	Iridium 9603	Iridium Certus™ 9704 	Iridium Certus 9770
Dimensions (L x W x H)	41 x 45 x 13 mm	31.5 x 29.6 x 8.1 mm	31.5 x 42 x 3.9 mm	140 x 60 x 16 mm
Weight	30 g	11.4 g	9.7 g	185 g
Connector type	Samtec low-profile header (part #FTSH-110-01-L-DV)	Samtec 0.40 mm pitch header (part #SS4-10-3.00-L-D-K-TR)	Connectorless, LGA surface mount	Samtec 1.27mm pitch header (part #: TFC-125-02-L-D)
Interfaces	Serial data, GPS pass-through (Iridium 9602 only), antenna connector, digital interface		Serial data, SPI, GPIOs, GNSS pass-through, antenna (RF pin), digital interface	Serial data, SIM, antenna connector, digital interface
Operating voltage	5.0V DC		3.5 V (min) / 3.7 V (typ) / 4.5 V (max)	12 VDC
Power parameters (average)	Idle - 35 mA, Tx - 140 mA, Rx - 40 mA	Idle - 34 mA, Tx - 145 mA, Rx - 39 mA	Idle - 40 mW, Tx - 400 mW *	Idle - 60 mW, Tx/Rx - 3.5 W
Operating temperature	-40°C to + 85°C		-40°C to + 85°C	-40°C to + 70°C
Dev kit available	Yes		Yes	Yes
Related services	Iridium SBD®; Iridium Burst®		Iridium Messaging Transport® (IMT®)	IMT®; Iridium Certus® (IP data & 2 voice lines)
Data speed	2.4 kbps		4.8 kbps	22 kbps (Tx) / 88 kbps (Rx)
Max message size	340 bytes (MO), 270 bytes (MT)		100 KB	-
SIM card	No		Internal SIM	Yes
Command interfaces	AT		JSON-based serial protocol for REST (JSRP)	JSON-based serial protocol for REST (JSRP)
Sample applications	Asset tracking, fleet management, remote control & automation; environment, safety & personnel monitoring; Global Line of Sight Service SM ; pole-to-pole comms		Autonomous / remote equipment telemetry, UAV command & control, low-power SCADA readings, cellular backup add-on; remote worker & lone traveler comms	Mobile & fixed equipment telemetry; military, government & emergency comms; environment, weather & site monitoring
				
	Iridium IoT transceivers are regulatory approved modules that conform to FCC, EU (RED), ANATEL and IC technical certifications		*Subject to update upon module release	