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# UBICOM



## Take control of your network

Ubicom is a reliable 2-way remote communication system. When connected to an FTS Axiom DCP, Ubicom allows high frequency data to be pushed at chosen intervals by Iridium to a gateway for retrieval. Using FTS AutoCaller, users can collect their data for analysis, export it to common formats for distribution and even perform advanced functions on the remote station itself.

- Reliable, all-in-one IP66 rated product
- Remote by design, typical power consumption 1/2 that of standard modems
- Flexible, proprietary protocol allows large messages to be sent over Iridium SBD



# Technical Specifications

MECHANICAL	Height	189 mm (7.45")
	Diameter at widest point	90 mm (3.55")
	Weight	403 g (0.89 lbs)
	Case material	Lexan™ polycarbonate
	Cable length	5 m (16.4'), 50' max
	Cable jacket	Polyurethane
	Mounting	Surface mount, or 1" NPT with supplied flange
	Connector interface	Waterproof, military-style bayonet connector
	Status LEDs	4 coloured LEDs, visible from up to 9m (30ft), indicates operational conditions
	Mechanical vibration rating	MIL-STD-167-1 Type 1
POWER ENVIRONMENTAL	Operating	-30°C to +60°C (-22°F to 140°F) 0% to 100% RH
	Storage	-40°C to +85°C (-40°F to 185°F) 0% to 100% RH
	Dust and water ingress	IP66
	Input voltage	9 - 16VDC
DATA I/O	Message size	6-250 bytes typically, no maximum
	Serial protocols	AT commands, PPP, SLIP, UDP/IP, TCP/IP
	Serial interface	RS-232
	RS-232 data rate	1,200 bps to 115.2 kbps
GPS	Acquisition time	Hot 1 sec; cold < 35 sec
	Accuracy	2.5 m (Horizontal CEP)
	Sensitivity	Acquisition: -147 dBm Tracking: -159 dBm
MISCELLANEOUS	EMC Certification	FCC, CE
	No. of antennas	1

GENERAL	Coverage	Global
	Satellite service provider	Iridium
	Modem	SBD, Short Burst Data
RF PARAMETERS	Frequency range	1616 MHz to 1626.5 MHz
	Input/output impedance	50 ohms
	Duplexing method	TDD
	Multiplexing method	TDMA/FDMA
	Oscillator stability	±1.5 ppm
	Maximum transmit power	1.6 W
	FCC ID	Q639602
POWER CONSUMPTION	Avg. current consumption - send	250 mA
	Avg. current consumption - receive	28 mA
	Sleep mode (cannot send/receive)	< 5 mA
ANTENNA	Radiation pattern	Hemispherical
	Polarization	Right hand circular
	VSWR	Less than 1.5:1
	Gain (dB)	3 dBi
	Impedance	50 ohms

*Specifications are subject to change without notice.*



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**EXTREME ENVIRONMENTS  
 EXTREMELY RELIABLE**

