

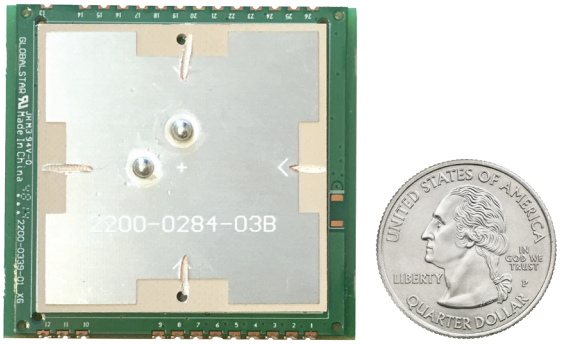

Globalstar STINGR

SATELLITE TRANSMITTER INTEGRATED GPS RECEIVER

POWERED BY ONE OF THE WORLD'S FASTEST & MOST MODERN SATELLITE NETWORKS

Globalstar has a complete tracking solution in a single module which dramatically reduces the design effort required to help customers build compact and efficient satellite communications devices. Using the Globalstar Satellite network, the **STINGR** allows information to be transmitted from areas well beyond the reach of reliable cellular coverage around the globe.

The **STINGR** is a low cost, OEM module which sends one-way data messages via the Globalstar Satellite Network. The module has a high performance GPS receiver as well as an on-board dual band antenna which greatly simplifies the effort of integrating satellite communications into a tracking or monitoring device. The **STINGR** is ideal for delivering remote sensing, tracking, and monitoring applications.



(Actual Size)

ADVANTAGES AND FEATURES

- Integrated GPS antenna
- Simple battery-powered operation from single 3.0 to 5.5 volt supply
- Enhanced STX3 command set
- Autonomous tracking modes built in
- Increases reliability through multiple transmissions
- Global coverage
- Low power consumption
- Low-profile surface mount design
- Versatile use: module can be integrated for use in a wide range of applications including liquid petroleum gas (LPG) tanks, water tanks, pipelines, electricity, meters, cars, trucks, boats and sea or land containers

TECHNICAL SPECIFICATIONS

SIZE
1.77 in x 1.87 in (45.05 mm x 47.37 mm)
Overall thickness of the board with antenna is 0.272" (6.91 mm)

CERTIFICATIONS
FCC CFR Part 25 Modular Certification
ISED
CE Red
ANATEL

SATELLITE TECHNOLOGY
Global LEO Satellite operation using the Globalstar Satellite Network. See Globalstar website for Coverage Map.

OPERATIONAL MODES

SLEEP MODE
VCC is applied to the unit, no transmissions are pending, no serial activity

ACTIVE MODE
The STINGR is active and responding to the serial port but is not transmitting

STANDBY MODE
The STINGR is inactive between transmissions but is not transmitting

TRANSMIT MODE
The STINGR is transmitting an RF packet

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
TX output power	-40 to +85°C, Vbatt=3.7 volts, 50 ohm load	17.0	17.5	18.0	dB
Transmit mode supply current	-40 to +85°C, Vbatt=3.7 volts, 50 ohm load	425	470	550	mA
Active mode supply current	25° C, Vbatt = 3.7 volts		2.3	2.5	mA
Standby mode supply current	25° C, Vbatt = 3.7 volts		12	70	uA
Sleep mode supply current	-40 to +85° C, Vbatt = 3.7 volts		8	65	uA
GPS Standby mode supply current	25° C, VBATT = 3.7 volts	80	100	125	uA

Visit **Globalstar.com** for more information.

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