



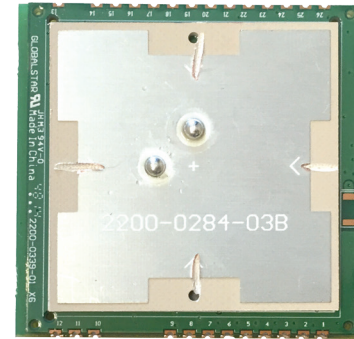
GLOBALSTAR STINGR

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 Simplex data 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 simplex module which sends one-way data messages via the Globalstar Simplex Network. The module 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 Simplex and 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

TECHNOLOGY Operates over the Globalstar Simplex Data Network

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	315	325	350	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

For more information on Globalstar's simplex communications, visit Globalstar.com/STINGR