

# STX3

## Satellite Modem



Globalstar offers the STX3 Satellite Transmitter Unit to help customers design and build compact and efficient communications devices. Using the Globalstar Satellite Network, the STX3 allows information to be transmitted from areas well beyond the reach of reliable cellular coverage around the globe.

The STX3 provides additional opportunities to integrate satellite connectivity into products used for vehicle and asset tracking, remote data and data logger reporting that have limited size requirements. Affordable pricing, low power consumption and its small size make the STX3 satellite transmitter a highly efficient device ready for integration in a wide variety of applications.

The STX3 is a low cost, OEM module which sends one-way data messages via the Globalstar Satellite Network when integrated into a tracking or monitoring device. The STX3 is ideal for delivering remote sensing, tracking and monitoring applications.

### Advantages and Features

- ✓ **Increases** reliability through multiple transmissions
- ✓ **Global** coverage
- ✓ **Low** power consumption
- ✓ **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, farm machinery, livestock tags, electricity, meters, cars, trucks, boats and sea or land containers

## Technical Specifications

### Dimensions

- 1130 mils x 810 mils (28.70mm x 20.57mm)  
Overall thickness of the board with components/shields is 163 mils (4.13 mm)

### Weight

- 0.14 oz. (3.97 g)

### Operating Temperature

- -30°C to 85°C

### Certifications

- FCC CFR Part 25 Modular Certification, ISED, Anatel, CE Tested

### Technology

- Operates over the Globalstar Satellite Network

## Operational Modes

### Sleep Mode

- Vcc is applied to the unit, no transmissions are pending, no serial activity

### Active Mode

- The STX3 is active and responding to the serial port, but is not transmitting

### Standby Mode

- The STX3 is inactive between transmission burst, but is not transmitting

### Transmit Mode

- The unit is transmitting an RF packet

When designing using the STX3, provisions should be made for regulatory testing including continuous RF testing for spectral measurements and power measurements.

NOTE: All products utilizing the STX3 module require Globalstar Network Certification. We recommend you contact the Globalstar Product Certification Team as early as possible in your development cycle.

Parameter	Test Conditions	Min	Typ	Max	Unit
TX output power	25°C, Vcc=Vrf=3.3 volts, 50 ohm load	18.75	19.0	19.75	dB
Transmit mode supply current	-30° to +85° C, Vcc=Vrf=3.3 volts, 50 ohm load	325	390	475	mA
Active mode supply current	-30° to +85°C, Vcc = 3.3 volts	2	2.25	3	mA
Standby mode supply current	-30° to +85°C, Vcc = 3.3 volts	3	12	55	uA
Sleep mode supply current	-30° to +85°C, Vcc = 3.3 volts	3	7	50	uA

For more information on how Globalstar's advanced product technologies can become an integral part of your wireless solution, please visit us online at [www.globalstar.com](http://www.globalstar.com).