

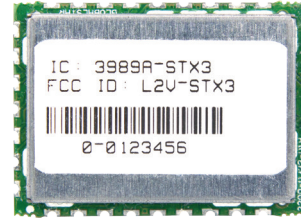


# STX3 Satellite Transmitter

*POWERED BY THE WORLD'S MOST MODERN SATELLITE NETWORK*

Globalstar has reduced the size of its Simplex Transmitter Unit (STX) by 2/3 to help customers design and build compact and efficient communications devices. Using the Globalstar Simplex data 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 reporting 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 simplex module which sends one-way data messages via the Globalstar Simplex 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, electricity, meters, cars, trucks, boats and sea or land containers

## TECHNICAL SPECIFICATIONS

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

**CERTIFICATION** FCC CFR Part 25 Modular Certification  
Industry Canada  
CE Tested

**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 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** Simplex 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	-40-85° C, Vcc=Vrf=3.3 volts, 50 ohm load	17.0	17.5	18.0	dB
Transmit mode supply current	-40-85° C, Vcc=Vrf=3.3 volts, 50 ohm load	315	325	350	mA
Active mode supply current	25° C, Vcc = 3.3 volts		2.3	2.5	mA
Standby mode supply current	25° C, Vcc = 3.3 volts		12	50	uA
Sleep mode supply current	25° C, Vcc = 3.3 volts		8	40	uA

For more information on Globalstar's simplex communications, visit [Globalstar.com/Simplex](http://Globalstar.com/Simplex)