



SGIR-005 Iridium SBD Serial Modem

Key features

- Low latency, true global coverage
- Automotive grade voltage regulator, 9-32V input with reverse polarity and load dump protection
- Low power consumption
- Data rates to 115.2 kbps
- Simple AT command set
- Three wire serial 12V RS232 I/F
- Simple and informative indicators
- SMA connector for Antenna
- 1.6W transmit power
- Simple power Control



Reliable Remote Area Tracking

The SGIR-005 has been specifically designed to provide remote area satellite communications for mobile assets such as road vehicles, marine vehicles, construction vehicles and mining equipment. The SGIR-005 can also be used to provide satellite data communications for any type of intelligent equipment including data acquisition systems.

The SGIR-005 is built around the Quake™ 9602 SBD (Short Burst Data) modem module, has an automotive grade power input (9 to 32 Vdc with reverse polarity protection) and simple 3 wire 12V RS232 communications. It uses a simple AT command set for communicating with its host.

The Iridium Satellite Network provides true global communications coverage that is highly reliable. The Short Burst Data protocol is extremely robust and reliable and is ideal for use in applications for the rapidly growing M2M market, including remote asset tracking and monitoring solutions.

SGIR-005 Technical Specifications

Communications - Iridium

Transmit / Receive Frequency: 1616 – 1625.5 Mhz

Transmit Power: 1.6 W

Message Size: Tx = 340 Bytes, Rx = 270 Bytes

Latency: 20 Sec (Typical)

Data Rate: 600 to 115200 bps

Power

External Power Source: 9 to 32 Vdc

Transmit: 190 mA to 1.5 A

Standby: 45 to 195 mA

Environmental

Operating Temperature: - 40°C to + 85°C

Storage Temperature: - 50°C to + 85°C

Mechanical

Dimensions: 70 W x 110 L x 23mm H



Front of unit with RF connection + Power



Back of unit with DB9 connector

Connectors

DB9 Connector – RS 232 Data

PIN	Description	PIN	Description
1	No Connection	6	No Connection
2	TX Data Out	7	No Connection
3	RX Data In	8	No Connection
4	No Connection	9	No Connection
5	Ground		

4 Pin Molex Connector - Power

PIN	Description
1	9 to 32 Vdc Input
2	Ground
3	No Connection
4	9 to 32 Vdc Power Control

Antenna Options

1. PCTEL 9122D
2. Maxtenna M1621HCR-GN
3. Maxtenna MEA-1621-SM
4. MobileMark and Maxtenna Combo Antennas
5. Multiband 2J6028

Compatible with CalAmp

1. LMU5541
2. LMU364x

Depending on your application, there are a range of antenna options available. Step Global can offer a range depending on how the SGIR-005 is to be deployed.

You can look through available options at shop.stepglobal.com, or you can reach-out to our sales team at sales@stepglobal.com.