

GSatMicro X Series

Send and Receive data anywhere in the world



Dual Network Iridium Tracker

The original GSatMicro Series enhanced with a GSM chipset for hybrid satellite and cellular solutions.

What is the GSatMicro X Series?

The X models of the GSatMicro Series add a redundant layer of communications by adding GSM capabilities to create a true hybrid solution.

Customize it to your needs!

You are able to customize all aspects of the GSatMicro Series, even the network you want to connect to. The X Series adds a GSM module to your terminal enabling the ability to have multiple layers of network connectivity creating a redundant platform for your communications. Working as hybrid solutions, the GSatMicro X and the GSatMicro OEM X, have the capability to switch flawlessly between local, land-based cellular networks and Iridium's globally accessible satellite network.

Same Small & Powerful Aspect

The GSatMicro is not much larger than a golf ball! Yet, state-of-the-art technology is combined with ingenious hardware development to create one of the world's most powerful satellite trackers.

Highly versatile options

Not only does a multi-network hybrid solution provide always-available communications, it can also reduce costs by using GSM as a less expensive way to send and receive data. You also have the option to choose which network is the primary means of transmitting data and which network is the failover network used for backup communications.

Sectors

Aerospace
Enterprise
Government
Maritime

Markets

Aviation
Rotorcraft
Space

Agriculture
Broadcasting
Construction
Emergency Response
Energy
Forestry
Gas
Heavy Equipment
Mining
Oil
Scientific Research
Security
Transportation

Drug Enforcement
Infrastructure
Military
Police
Public Transit

Fishing
Leisure Craft
Merchant Shipping

GSatMicro

Specification Overview

Features

- 32-bit ARM processor with a user customizable LUA scripting language
- Internal dimensions 1.77 x 1.77 x 1.34 inches (45 x 45 x 34mm),
 - Including battery, modem & antenna
- SIRFstarV GPS with an amazing -163dBm sensitivity
- AES 256-bit encryption
- Bluetooth 4.0 (BLE)
- Built in 2.5Ah Lithium Polymer battery & charger
- Accelerometer and Magnetic Compass
- Battery Fuel Gauge
- Integrated high gain ceramic antenna dual tuned for Iridium and GPS
- Over the air configuration of the terminal
- Truly global coverage with the Iridium satellite network

So, what's in the GSatMicro X Series?

The options are highly versatile and can be controlled based on the requirements of your project.

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| <ul style="list-style-type: none"> ✔ Fully self-contained ✔ Waterproof ✔ Rugged case (IP67) ✔ Small size ✔ Status indicators ✔ Alert Button ✔ Sleep & Storage Modes + Satellite + GSM Networks + Customizable Switchover | <ul style="list-style-type: none"> ✔ Rechargeable Battery ✔ Omni-Directional Antenna ✔ Multiple Sensor I/Os ✔ Smartphone Tethering & Apps ✔ White label Options + Network Redundancy + Increase Coverage + Reduce Costs |
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Interfaces

- USB DC Input (4.5V to 5.5V)
- High Voltage DC Input (7.5V to 36V)
 - (protected to 40V DC)
- USB Interface
- RS232 Interface
- 2 Relay Outputs @ 2A
- 2 Analog Inputs (0V to 30V DC)
- Optional SMA antenna connector

Communication

UART - NMEA (Default)

NMEA message Switchable

GGA, RMC, GSA, GSV, VTG, GLL, ZDA

Channels

48

Correlators

~ 400,000

Frequency

LI - 1,575 MHz

Sensitivity

Tracking: - 163 dBm
 Navigation: - 160 dBm
 Acquisition (cold start): - 148 dBm

Position Accuracy

< 2.5 m CEP (autonomous)
 < 2.0 m CEP SBAS (horizontal)

Time To First Fix

Hot Start: < 1 s, Warm Start: < 32 s
 Cold Start: < 35 s

