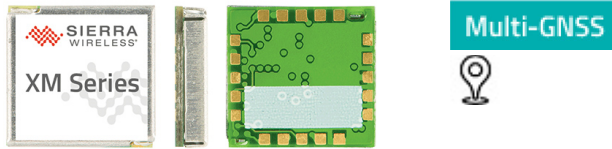Products and Solutions

Embedded Solutions

XM1210 GNSS Module

Constellations: GPS+Glonass,GPS+BeiDou,GPS+Galileo
Interfaces: UART,I2C,USB
Form Factor: Standalone GNSS

AirPrime XM1210 Multi-GNSS Module

Delivering cost-efficient multi-GNSS positioning accuracy and quick TTFF

The XM1210 supports tracking of GPS+Glonass, GPS+Beidou or GPS+Galileo satellite system combinations to deliver superior positioning accuracy of <2.0 meters. The XM1210 has an ultra-compact form-factor of 9.0x9.5x2.1 mm, which is the same size and backwards compatible with the XM11 series modules.

The XM1210 incorporates a complete set of high-quality components, including TCXO, RTC Crystal, SMPS, SAW-Filter and an additional LNA, which guarantee optimum positioning performance.

The XM1210 is ideal for applications looking to add basic GNSS tracking features.
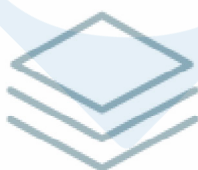
Benefits

Enhanced Positioning

Improve accuracy and time-to-fix with A-GPS and SBAS

Anti-Jamming

Active interference cancellation

Fully Integrated

Built-in RTC Crystal, TCXO, SMPS, additional LNA and additional SAW-Filter for best-in-class performance

Industrial-grade

Tested for harsh environments and extreme temperatures

Multi-Interface

Use I2C or USB for serial communication in addition to UART

Technical Specifications

RF SPECIFICATIONS

Frequency Bands	GPS L1, GLONASS L1, QZSS L1, SBAS L1, GALILEO E1

LOCATION SERVICES

Satellite Systems	GPS+Glonass, GPS+BeiDou, GPS+Galileo
A-GPS	Yes
Anti-Jamming	Yes
Positioning Accuracy	<2.0m
Timing Accuracy (1 PPS)	±30 ns
Tracking Sensitivity	-161 dBm

INTERFACES

UART	1
USB	1
I2C	1
Max Update Rate	1 Hz

HARDWARE

Dimensions	9x9.5x2.1mm
Temperature Range	Industrial Grade: -40°C / +85°C
Built-in Components	TCXO, RTC Crystal, Additional LNA, SMPS, Additional SAW-Filter, Embedded Flash

POWER

Power Voltage	3.0V
Power Tracking	<35 mA
Standby Mode	<2 mA

APPROVALS

Regulatory	
ROHS	