

# Tersus MX206

## High-precision GNSS module



17x22x2.7 mm

### Overview

The MX206 is a compact, low-power high-precision positioning module designed for mass-market applications. Supporting all major GNSS constellations and frequencies, it integrates RTK and PPP technologies to deliver centimeter-level accuracy for precision agriculture, surveying, UAVs, and robotics.

With 1040 channels and full-signal tracking capability, the MX206 supports Tersus TAP service and can maintain

centimeter-level positioning in remote areas without RTK base stations or CORS. Its advanced processor enables up to 20Hz output and parallel RTK/PPP operation for enhanced reliability.

Featuring a standard 17mm × 22mm LGA package, rich interfaces, and support for multiple correction services, the MX206 simplifies integration and accelerates product development.

### Key Features

- All-Constellation All-Band
- Supports the global TAP satellite-based augmentation service.
- Built-in NIC professional-grade narrow-band anti-interference unit, providing significant suppression against single-tone and narrow-band interference.
- Supports 20Hz RTK update rate and raw data output.
- Supports the simultaneous operation of RTK and PPP, with intelligent complementary switching.
- Mainstream size and packaging, easy to integrate and promote.

### The GNSS Expert

Right to the Point

Tersus GNSS Inc.  
▲ 18F, Tower 1, No. 235, Yubei Road, Pudong New District, Shanghai, China  
T +86-21-50803061 E sales@tersus-gnss.com



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### Performance

Signal Type	
GPS: L1C/A,L1C,L2C,L5	
GLONASS: G1,G2	
BeiDou: B1I,B2I,B3I,B1C,B2a,B2b	
Galileo: E1,E5a,E5b,E6	
QZSS: L1C/A,L1C,L2C,L5	
SBAS: L1	
IRNSS: L5	
L-Band	
Channels	1040
Accuracy(Single)	
- Horizontal	1.5m
- Vertical	2.5m
Accuracy(DGPS)	
- Horizontal	0.4m
- Vertical	0.8m
Accuracy(RTK)	
- Horizontal	7mm+1ppm
- Vertical	15mm+1ppm
Accuracy(TAP)	
- Horizontal	15mm
- Vertical	30mm
TAP	
- Convergence Time	3 min
- Coverage Area	global
- Signal Stability	99.99%
Observation Accuracy	
- Pseudorange	10cm
- Carrier	1mm
TTFB	
- Cold Start	<30s
- Hot Start	<2s
Reacquisition	<1s
Timing Accuracy	10ns
Velocity Accuracy	0.03m/s
Initial Time (Typical)	4s
Initial Reliability	>99.99%
Sensitivity	
- Acquisition	-145dBm
- Tracking	-160dBm

### Data

Correction Data Format	RTCM3.3
Output Format	NMEA-0183,Tersus
Update Rate	20Hz

### Interface

PPS Output	×2
Event Input	×1
CAN	×2
SPI Slave	×1
SPI Master	×1
I2C	×1
UART	×3

### Physical Characteristics

Size(mm)	17×22×2.7
Package	LGA 54Pin
Grade	Industrial

### Electrical Characteristics

Input Voltage	+3.3V DC
Power Consumption	350mW

### Environmental Parameter

Operating Temperature	-40°C ~ +85°C
Storage Temperature	-55°C ~ +125°C

**Website:** [www.tersus-gnss.com](http://www.tersus-gnss.com)

**Sales Inquiry:** [sales@tersus-gnss.com](mailto:sales@tersus-gnss.com)

**Technical Support:** [support@tersus-gnss.com](mailto:support@tersus-gnss.com)

**Information is subject to change without notice.**

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