

Engineered to provide precise GNSS measurements in a small, rugged, wearable platform; Asteri X-Series GNSS receivers measure up.

With its fully integrated antenna design, users can achieve mapping grade accuracies using real-time networks or connect to an optional external antenna for even higher accuracies.

X1 features AssistNow™ Autonomous technology, enabling the receiver the ability to provide a faster fix in areas where GNSS signals are weak.

X2 features an advanced kalman filter PVT engine that delivers high accuracy GNSS and DGNSS positions in the most challenging environments such as urban canyons. With its L1 RTK engine it can also deliver 1-2 centimeter positioning.

X3 features aRTK™, providing satellite based RTK augmentation for areas with poor cellular data coverage. It also features Tracer™ technology, allowing the receiver to sustain positioning in the absence of correction data. Supports high-accuracy L-band (L1/L2/L5) positioning from meter to sub-decimeter levels available via Atlas correction service.



SPECIFICATIONS AT A GLANCE



MEASUREMENTS

2.8 x 5.4in (7.1 x 13.7cm)
11.3oz (320g) with Battery
7.4oz (210g) without Battery



BATTERY

Removable Lithium Ion
3400mAh (12+Hour)
External Battery Charger Option



TEMPERATURE RANGE

Operating Temperature:
-4°F to 140°F (-20°C to 60°C)
Storage Temperature:
-22°F to 158°F (-30°C to 70°C)



WEATHER RESISTANCE

IP65
Sealed to protect against Dust and Rain

ASTERI X-SERIES

HIGH ACCURACY • SMART DEVICE CAPABLE • WEARABLE DESIGN



Asteri X1
1-2m
(SBAS)



Asteri X2
50cm
(SBAS)
Up to 1cm
(RTK/VRS)



Asteri X3
30cm
(SBAS)
30cm (Atlas H30)
4-10cm (Atlas H10)
Up to 1cm
(RTK/VRS)

ASTERI X-SERIES

	X1	X2	X3
Channels:	72	220	394
Signals Received:	GPS/QZSS L1 C/A, GLONASS L10F BeiDou B1, Galileo E1B/C	GPS/QZSS L1 C/A, GLONASS L1 C/A, BeiDou B1, Galileo Galileo: E12	GPS L1CA/L1P/L1C/L2P/L2C/L5 GLONASS G1/G2, P1/P2
Correction Type:	SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN	SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN, CMR, CMR+, sCMRx, RTCM 2.1, 2.2, 2.3, 3.0, 3.1	BeiDou, B1/B2 (B3 separate variant without L5) GALILEO E1BC/E5a/E5b QZSS L1CA/L2C/L5/L1C SBAS Tracking: 3-channel, parallel tracking Atlas Lband H30 and H10
Navigation Update Rate:	2 Concurrent GNSS: up to 10 Hz	Up to 20 Hz	Up to 20 Hz
Accuracy:	Horizontal: 1-2m RMS	Single Baseline RTK 0.008 m + 1 ppm Horizontal 0.015 m + 1 ppm Vertical DGNSS 0.25 m + 1 ppm Horizontal 0.50 m + 1 ppm Vertical SBAS 0.50 m Horizontal 0.85 m Vertical	Single Baseline RTK 0.008 m + 1 ppm Horizontal 0.015 m + 2 ppm Vertical Atlas H10 0.04 m + 1 ppm Horizontal Atlas H30 0.15 m + 1 ppm Horizontal SBAS 0.30 m Horizontal 0.60 m Vertical
Time-To-First-Fix:	Cold Start: <26 s Hot Start: 1 s	<45 s <2 s	<60 s <10 s
Protocol:	NMEA 0183, UBX	NMEA 0183, Trimble GSOFF	NMEA 0183, GGA All Mode, Crescent binary3

Standard Accessories:

X1/X2

Arm Band
High Capacity Li-ion Battery x 1
AC Power Supply/Charger

X3

Customized Backpack and Pole
External L1/L2/L5 Lband Antenna
High Capacity Li-ion Battery x 2
AC Power Supply/Charger
Additional External Battery Charger

X1/X2/X3 Optional Accessories:

High Capacity Li-ion Battery
AC Power Supply/Charger
External Battery Charger
External Antenna
(Single, Dual, or Multi Frequency Lband)
Serial Port Adapter
Arm Band
Custom Backpack and Pole
Safety Vest with Receiver Pouch
Range Pole
Range Pole Receiver Bracket
Range Pole Tablet Bracket

Atlas H10/H30 Realtime Correction Service
(Monthly, Quarterly, or Annual Options)

GNSS performance may be subject to anomalies due to multipath, obstructions, geometry, environmental and atmospheric influences. Asteri Navigation always recommends users follow proper GNSS data collection protocols.

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