



GNSS



GENEQ inc.

The latest in GNSS technology is now available, introducing our new SXPro GNSS

The **SXPro GNSS** is a rugged «All-In-One» professional grade GNSS Data Collector with 372 Channels of multi-constellation (GPS - GNSS - BeiDou) designed to achieve **real time** sub-meter positioning.

The **SXPro** is equipped with a 806 MHz CPU processor, 256 MB DDR RAM, a 5.0 MP camera with AF, microphone, speaker and GPRS/EDGE-Cellular network connection using a SIM card.

The **SXPro GNSS** supports GPS, GLONASS and BeiDou.

The **SXPro features** a 3.7" VGA Outdoor-Viewable Color Touchscreen.

Fully rugged (IP65) with operating temperature of -10°C to + 55°C.

Running Windows Mobile 6.5 Professional, the **SXPro GNSS** comes with a full range of Microsoft utilities. Use it with ArcGis, Carlson Surveyor, Géo-Plus, MicroSurvey FieldGenius, or any other software to achieve GIS accuracy in Forestry, Mining, Utilities and Environmental applications.



Key Features

- 372 Channels for multi-constellation GNSS support
- RTK option available
- Windows Mobile 6.5 pro
- Built-in GPRS/EDGE modem, Bluetooth and Wi-Fi
- 5 Megapixel Autofocus Camera
- Battery life is 10 hours or more
- FCC Approved

TECHNICAL SPECIFICATIONS



SYSTEM

Windows Mobile:	6.5 Pro
CPU:	806 MHz, 256 MB DDR
Memory:	2 GB Flash, Micro SD up to 8GB
Camera:	5.0 MP with AF
Display:	3.7" VGA (480 x 640), sunlight readable
Battery:	3.7 V, 6200 mAh

GNSS SENSOR

Channels : 372 Channels

RECEIVER TYPE

GPS:	L1 C/A
Glonass:	L1
BeiDou:	B1
QZSS:	L1 C/A, L1 SAIF
SBAS:	L1 C/A
Nmea-0183 Support	
RTCM2.x / RTCM3.x / CMR / CMR+ / CMRx	

PERFORMANCE & POSITIONING SPECS

Time to First Fix (TFF):	Cold Start	<60 seconds
	Warm Start	<30 seconds
	Signal Re-Aquisition	<2 seconds
DGNSS:	Horizontal	0.25 m + 1 ppm
	Vertical	0.50 m
SBAS:	Horizontal	0.30 m
	Vertical	0.60 m
RTK (optional):	Horizontal	10 mm + 1 ppm
	Vertical	20 mm + 2 ppm
Post-Processing ¹ :	Horizontal	5 mm + 0.5 ppm (Static)
		10 mm + 1 ppm (Kinematic)
	Vertical	5 mm + 1.0 ppm (Static)
		20 mm + 1 ppm (Kinematic)

¹ Depends on multipath environment, number of satellites in view, satellite geometry, baseline length (for local services) and ionospheric activities

COMMUNICATION

Cellular modem:	3.5 G
GPRS / EDGE:	850 / 900 / 1800 / 1900 MHz
Wifi:	802.11 b/g
Bluetooth:	V1.1 + EDR

PHYSICAL

Size:	210 mm x 95 mm x 45 mm
Weight:	575 g (with battery)
Key:	Power key, F1&F2 application key and Camera key

ENVIRONMENT

Operating Temperature:	-10°C to 55°C
Storage Temperature:	-20°C to 70°C
Charging Temperature:	0°C to 45°C
Sand, Dust & Water:	IP65
Drop:	1.5 m
Vibration:	Method 514.5
Relative humidity:	95 % non-condensing

CONNECTORS

Internal microphone and speaker
Fisher to USB connector
Fisher to RS232 connector
SIM socket
SDHC card socket

STANDARD ACCESSORIES

- Li-Ion Battery (2)
- Stylus
- DC Adapter
- Charging Cable
- USB 9pin Fischer Cable
- D89 9pin Fischer Cable
- TF Card-4G
- Docking Station
- Neck Strap
- Mounting Bracket And Pole (Claw) Clamp
- Hard Carrying Case

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