



Venta- Arriendo- Calibración- Servicios Topográficos- Venta-Servicio Técnico- Herramientas Eléctricas

HI-TARGET

GEOLASER

SOUTH

BOSCH

SingularXYZ

Leica
Geosystems

SOKKIA

TOPCON

Certificación ISO 9001:2015

Ficha tecnica

SATELLITES TRACKING

Channels	1408
BDS	B1I, B2I, B3I, B1C, B2a, B2b'
GPS	L1 C/A, L1C, L2P, L2C, L5
GLONASS	G1, G2, G3
Galileo	E1, E5a, E5b
QZSS	L1, L2, L5
IRNSS	L5
SBAS	WAAS, EGNOS, SDCM, BDSBAS, GAGAN
L-Band	Upgradeable
Cold start	<30s
RTK Initialization Time	<5s(typical)
RTK initialization reliability	>99.9%
Re-acquisition	<1s

ACCURACY

Standalone	1.5m Horizontally 2.5m Vertically
DGPS	0.4m Horizontally 0.8m Vertically
Static post-processing	2.5mm+0.5ppm Horizontally 5mm+0.5ppm Vertically
RTK	8mm+1ppm Horizontally 15mm+1ppm Vertically
SBAS	< 1.0 m 3D RMS
Time Accuracy	20ns
Tilt surveying	< 2.5cm, within 60° tilt

COMMUNICATION

4G modem	FDD-LTE B1/B3/B5/B7/B8 TDD-LTE B38/B39/B40/B41 TDSCDMA B34/B39 WCDMA B1/B2/B5/B8 GSM B2/B3/B5/B8 CDMA1x/CDMA2000 BC0/BC1
UHF modem ²	- Working range: 5km – 15km ² , in ideal environments - Frequency range: 410-470MHz - Protocol: TRIMATLK, TRANSEOT, SATEL, TRIMMARK3, etc. - Channel spacing: 25KHz - Transmit power: 0.5W/1W selectable
Bluetooth	BT4.0 dual mode
NFC	Support NFC connection
WiFi	802.11 a/b/g/n/ac
Interface	- 1 7-pin lemo port for RS232 transmission and power supply - 1 SIM card slot for 4G - 1 TNC connector for UHF antenna - 1 Type-C USB port for static data download & firmware upgrade

DATA FORMAT

Data output format	- NMEA-0183 - RINEX 3.02/3.04 - Binary format *.xyz
Data update rate	1 ~ 50Hz selectable
Correction data format	- RTCM v3.3/3.2/3.1/3.0 - CMR
Supported protocols	Ntrip client, Ntrip Server, Ntrip Caster, TCP

USER INTERACTION

Indicators	4 LEDs indicating battery/charging, satellite tracking, correction data transmission, and 4G status/static recording
Button	2 buttons for power and function
WebUI	- Accessible via Wi-Fi - Support configuration, status checking, data transfer, data storage and system upgrade

ELECTRICAL

Power consumption	2.0 W ⁴
Input voltage	DC 9–28V
Battery	- 6700 mAh, over 20 hours working time - Fast charge of 2.5 hours charging time

PHYSICAL

Size	Φ133.5 mm × 67 mm
Weight	870 g
Storage	8 GB ⁵
Housing material	Magnesium-aluminum alloy
Speaker (optional)	For voice broadcast of real-time status

ENVIRONMENTAL

Working temperature	-40 °C to + 65 °C
Storage temperature	-55 °C to + 85 °C
Humidity	100% non-condensing
Waterproof & dustproof	IP67
Drop	Designed to survive a 2m drop onto concrete

1. The BDS B2b signal is reserved for future upgrade.
2. The enhanced UHF modem is not compatible with the normal UHF modem on the market. For different user needs, SingularXYZ also provides normal UHF as an option compatible with UHF of other brands. Please clarify your requirements when placing the order.
3. The maximum working range of the enhanced UHF modem is 15km in ideal environments.
4. The power consumption of X1 Pro varies with the different work modes.
5. Storage can be expanded to 32GB according to user demands.

All specifications are subject to change without notice.

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