

XT-100

Compact GNSS Survey Grade Receiver

Xtragen Technologies Private Limited

Enabling connectivity between Technology & People

FEATURES

GNSS technology

channels for simultaneous tracking of all visible supported satellite signals:

- ▶ GPS: O # ° ' O # ' O h ' °
- ▶ GLONASS: O °
- ▶ Beidou: " @ " @ " @ " # "
- ▶ Galileo: - ' - ' -
- ▶ QZSS: O # ° ' O # °
- ▶ SBAS: GAGAN (O # °)

Communication

USB 3.1, Type - C, OTG function Support,
Nano SIM card, BLE+DR,
Multi-network Compatible 4G
LTE FDD: B1,B3,B5,B8
LTE TDD: B34,B38,B39,B40,B41

Data Formats

CMR, CMR+, RTCM v2.x, RTCM v3.x,
NMEA-0183

PERFORMANCE

RTK performance

Horizontal accuracy	0.8 cm + 1 ppm
Vertical accuracy	1.5 cm + 1 ppm
Initialisation time	Typically < 10s
Initialisation Reliability	> 99.9%

Positioning

Single point positioning	H: 1.5m
Position rate	Upto 10Hz
PPP	H: 10cm V: 20cm
Tilt survey performance	Additional horizontal pole-tilt uncertainty typically less than 5 mm +0.5mm/°tilt, with an inclination of up to 60 °



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PHYSICAL

Dimensions	130 x 66 x 29 mm
Weight	226g (with battery)
Storage	32GB ROM internal storage
Battery	5160 mAh Li-ion removable battery
Power Supply	5V/2A,
Indicator	1 power indicator light, 1 blue indicator light, 1 differential indicator light, 1 satellite indicator light
Endurance	12 hours

ENVIRONMENTAL

Operating temp	-20 to 65° C
Storage temp	-40 to 85° C
Humidity	90% (non-condensing)
Vibration	MIL-STD-810G, 514.6
Water / Dustproof	IP67
Free fall	1.2m drop on concrete



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