



XD-R3005GU Multi-Band GNSS Receiver

RTK High Precise Positioning / Harden Vehicle Terminal

Description

XD-R3005GU adapts UBlox F9P high performance GNSS receiver, with multi-band RTK that provides fast convergence times and reliable performance. It supports GPS-L1/L2; GLO-L1/L2; BDS-B1/B2 and GAL-E1/E5 all GNSS constellations system. With built-in LTE Cat 4 mobile module for data communication and the online auto-adaptive calculation that provides precise positioning up to centimeter-level accuracy. The harden casing design is most suitable for the heavy duty vehicle.



Highlights

- Adapts UBlox F9P high performance GNSS receiver
- Supports all GNSS systems and multi frequency bands
- Built-in LTE Cat 4 mobile module for data communication
- Multi-band RTK differential precise positioning technology
- Centimeter and sub-meter grade positioning achieved
- IP67 harden casing with aviation connector for tough environment



Technical Specification

System Type	Specification	
GNSS Chip Set	u-blox F9P (184-channels)	
GNSS System	GPS	L1C/A, L2C
	GLONASS	L1OF, L2OF
	BDS	B1I, B2I
	Galileo	E1B/C, E5b
	QZSS	L1C/A, L2C, L2S, L5
	SBAS	L1C/A
Nav. Update Rate	RTK	up to 20 Hz
Position Accuracy	RTK	0.01 m + 1 ppm CEP
Convergence Time	RTK	< 10 sec
Acquisition	Cold start	24 s
	Aided start	2 s
	Reacquisition	2 s
Sensitivity	Tracking & Nav.	-167 dBm
	Cold starts	-148 dBm
	Hot starts	-157 dBm
	Reacquisition	-160 dBm
Communication Port	UART	x2
	SPI	x1
	USB	x1
	DDC (I2C compliant)	x1
Physical	Dimension	178 x 119 x 42 mm
	Weight	432 g
	Input Voltage	+9V ~ +32 VDC
	Consumption	4.8 W
	Protection	IP67