



C620 MINI GNSS Receiver

The C620 is a Network GNSS receiver with the latest generation of RTK engine. With built in 4G modem, multi constellation receiver designed in a compact magnesium alloy housing. Running a Linux operating system allows users to quickly modify settings through the WebUI interface. This is one of the most compact, strong and powerful GNSS receiver on the market.

Orbit C620 MINI GNSS Receiver Features

- **Qualcomm MDM9628 Cortex-A7 Intelligent System Platform**
- **800 (Hemisphere Chip) Super Channels and special fast acquisition engine**
- **Supports BDS, GPS, GLONASS, Galileo, QZSS and SBAS**
- **Centimeter Level accuracy**
- **Built-in Large capacity intelligent Lithium battery with over 9 Hrs of operating time.**
- **Compact design with strong magnesium Alloy housing with IP65 rating**
- **Drop tested at 1.5m**
- **Light weight only 550g**
- **Dimensions -
L100mm x W100mm x H61.5mm**



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C620 GNSS Receiver Technical Parameters

Item	Specification	
Hardware system	Qualcomm MDM9628 Cortex-A7	
OS	Linux	
GNSS	GPS	L1,L2,L5
	GLONASS	L1,L2,
	BDS	B1,B2,B3
	GALILEO	E1,E5a,E5b
	QZSS	L1,L2,L5
	SBAS	L1
	Data format	NMEA-0183
	Correction I/O protocol	RTCM2.X, RTCM3.X
	Data update frequency	1HZ(can customize max 20HZ)
	Recapture time	<1s
	Cold start	<40s
Position Accuracy	Single(RMS)	Horizontal:1.5m; Vertical:2.5m
	DGPS(RMS)	Horizontal:0.4m; Vertical:0.8m
	RTK(RMS)	Horizontal:±(10mm+1ppm)
		Vertical: ±(15mm+1ppm)
	Time accuracy(RMS)	20ns
	Speed accuracy(RMS)	0.03m/s
Tilt compensate accuracy (within 30°)	<2cm	
System	Bluetooth	V2.1+EDR / V4.0 dual mode
	WIFI	802.11 a/b/g/n/ac
	Network	LTE FDD: B1/B3/B5/B8
		LTE TDD: B38/B39/B40/B41
		TD-SCDMA: B34/B39
		CDMA: BC0
		WCDMA: B1/B8
	GSM: 900/1800MHz	
Internal Storage	32GB	
Indicator	Power Indicator	Show power status
	Satellite Indicator	Blink when effective position
	Bluetooth Indicator	Light when Bluetooth connected
	Datalink Indicator	Blink when get differential signal
Battery/Charge	Battery	3.7V, 9600mAh
	Work time	More than 9hours
	Charge	Support MTK PE+ 1.1/2.09V/1.6A
		Support USB PD12V/1.25A
Environment	Support 5V/2A	
	Work temperature	-20°C~+60
	Storage temperature	-40°C~+85
	Shock	Withstand 1.5M pole drop
Physical	Protection	IP65
	Material	Magnesium alloy mainbody, ABS/PC top cover
	Dimension	100mm*100mm*61.5mm
	Weight	550g