

Product Specification	
Model Name	RDC80 Pro
Appearance	
Physical Characteristics	
Size	235*146*14.5 (mm)
	High precision antenna: Φ152*62.2mm
Weight	610g
	High precision antenna: ≤400g
Color/Material	Hard glue (dark gray) + soft glue (black) @ two-color injection molding
LCD	8" IPS 1280 x 800 HD 800nits (typ)
TP	10-point touch, supports glove and wet hand operation.
Camera	Front camera 8MP, FF
	Rear camera 16MP, autofocus with dual LED flash
Extension Port	1*Type-C (Charging and data, network transfer port USB2.0OTG)
	1*Nano-SIM card slot
	1*Micro card slot (SDHC Max: 256GB)
	Extension A
	Back pogopin 14PIN compatible design
	Antenna interface
	SMA-K
Physical Button	3.5mm headphone jack
	Total 8 physical buttons: 1 *power button, 2 *volume buttons, 2* custom buttons, 1* return button, 1 *Home button, 1 *menu button
Software & Hardware	
CPU	Qualcomm QCM4290 8-core 2.0GHz
Operating System	Android13.0
RAM	6GB LPDDR4X
ROM	128GB eMMC
Sensor	L-sensor
	G-sensor
	Gyroscope
	E-compass
Speaker	Standard built-in x1
Mic	Built-in*2 (supports noise reduction)
Battery	Battery: 3.8V 8200mAh (removable)
	Charger: Supports QC3.0 18W charging
	Working conditions (simultaneously):
	1. Screen brightness 300nits 2.WiFi network mode 3. Turn on GNSS positioning 4. Play online videos Working hours≥8 hours
	Charging time: ≤5 hours

Wireless communication		
GNSS (Built-in Positioning)	Beidou GPS GLONASS Galileo	
WiFi	Protocol	802.11 a/b/g/n/ac/e/i/r (Dual Band 2.4 & 5GHz)
Bluetooth	BT 5.1@BLE	
NFC	NFC 13.56MHz, work distance≥3cm ISO/ 14443 A/B ISO/ 15693, NFC- IP1, NFC-IP2 M1 Card(S50, S70) , CPU Card, NFC Label	
Network	4G TDD-LTE	B38/B39/B40/B41
	4G FDD-LTE	B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B20/B25/B28(b)/B66
	3G	WCDMA B1/B2/B5/B8
	2G	850/900/1800/1900
High Precision Module		
High Precision Module		Single Point Positioning (RMS) Horizontal: 1.5 m Vertical: 2.5 m DGPS (RMS): Horizontal: 0.4 m Vertical: 0.8 m RTK : Horizontal: 0.8 cm + 1 ppm Vertical: 1.5 cm + 1 ppm
High Precision Antenna		Peak Gain: 4.5 dBi Phase Center Error: ±2 mm LNA Gain: □ L1 band: 34±2 dB L2/L5 bands: 36±2 dB Operating Voltage: +3.3 ~ +12 VDC Operating Current: □≤45 mA RF Connector: TNC female Mounting Method: Centering rod
Reliability		
Working Temperature	-20℃~+60℃	
Storage Temperature	-40℃~+70℃	
Humidity	0-95%RH, non-condensing	
ESD	Contact type 8KV, air type 10KV	
Water proof	IP67	
Dorp	1.2m (to marble)	
Test & Certification		
Test & Certification	CE	
	FCC	
	IC	
	RoHS	
	WEEE	
	REACH	
	GMS Global	
	MIL-STD-810H Basic version (waterproof and drop-proof)	
Packing List		
Packing List	Main Unit (Host)*1 with factory-applied screen protector (user-removable layer retained)	
	Removable High-Capacity Battery*1	
	High-Precision GNSS Antenna*1	
	RF Cable*1 (1m, TNC male to SMA male)	
	Carrying Case*1	
	Host Mounting Bracket*1	
	Quick Start Guide*1 (Black & white printed)	
	Power Adapter*1 (QC3.0 fast charging with detachable plug)	
	Standard EU Plug*1	
	Type-A to Type-C Data Cable*1	
	Clip Mount*1 (pre-assembled on host unit)	
	Single-Point Shoulder Strap*1 (inside packaging)	