

Technical Parameters

signal tracking

Frequency Range(MHz)	BDS : B1I,B2a GPS: L1C/A,L5 GLO: G1 GAL: E1,E5a QZSS*: L1C/A,L5 SBAS*: L1C/A
time characteristics	
Cold start	<24S
Precision	
Timing accuracy	20ns
Standard single point positioning accuracy	H≤1.5m,V≤ 3m (1a,PDOP≤4)
Speed measurement accuracy	≤0.02m/s (RTK fixed solution, 1a)
RTK initialization time	
RTK initialization time	<5s(D<10km)
RTK initialization confidence	>99.9%
RTK Precision	H:±(8+ 10*xD) mm V:±(15+ 10*x D) mm
Electrical properties	
Supply voltage	+3.3V to +3.45V DC
Power consumption	0.15W
Data Format	
NMEA-0183	GPGGA, GPGSV, GPGLL, GPGSA, GPGST, GPRMC. GPVTG.GPZDA.GPNTR etc.
RTCM3.X	1005,1019,1020,1042,1044,1046 MSM4: 1074,1084,1094,1114.1124 MSM7:1077,1087,1097,1117,1127
Hardware interface	UARTx2,PPSx1,FCx2,USBx1

Weight (g)	<1g
Dimension	16mmx12mmx2.2mm
encapsulation	LGA 24 pin
Environment Specifications	
Operating Temperature (°C)	-40~+85
Storage Temperature (°C)	-55~+95