

Technical Parameters

signal tracking

Frequency Range(MHz)	BDS:BDS-2:B1I,B2I,B3I BDS-3:B1I.B3I GPS:L1C/A.L2P L2C GLO:G1.G2 GAL:E1.E5b QZSS*:L1C/A.L2C SBAS*:L1C/A
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time characteristics

Cold start	<30S
Precision	
Timing accuracy	20ns
Standard single point positioning accuracy	$H \leq 1.5m, V \leq 3m$ (1a, PDOP ≤ 4)
Speed measurement accuracy	$\leq 0.02m/s$ (RTK fixed solution, 1a)
RTK initialization time	<5s(D<10km)
RTK initialization confidence	>99.9%
RTK Precision	H: $\pm(8 + 10 \times D)$ mm V: $\pm(15 + 10 \times D)$ mm
Electrical properties	
Supply voltage	+3.3V to +3.45V DC
Power consumption	1.6W
Data Format	
NMEA-0183	GPGGA, GPGSV, GPGLL, GPGSA, GPGST, GPRMC. GPVTG.GPZDA etc.
RTCM3.X	1004 - 1008,1012,1019,1020,1033,1042. 1045/1046,1230
Hardware interface	UARTx4,PPSx1,EVENTx2,SPtx1
Weight (g)	<9.4g

Dimension	30mmx40mmx3.2mm
encapsulation	LGA 60 pin
Environment Specifications	
Operating Temperature (°C)	-40~+85
Storage Temperature (°C)	-55~+95