

## Technical Parameters

### signal tracking

Channel	1408 channels, based on NebulasIV
Frequency Range(MHz)	BDS B1I, B2I, B3I, B1C, B2a GPS L1C/A, L2C, L2P(Y), L5 GLONASS G1, G2 Galileo E1, E5a, E5b QZSS L1C/A, L2C, L5 SBAS L1C/A

### time characteristics

Cold start	< 30S
Precision	
Timing accuracy	20ns
Standard single point positioning accuracy	H≤1.5m, V≤ 2.5m (1a, PDOP≤4)
Speed measurement accuracy	≤0.03m/s (RTK fixed solution, 1a)
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	0.95W
Data Format	
Differential Data	RTCM2.3, RTCM 3.x, CMR
Data Format	NMEA 0183

Hardware interface	UARTx3,I2Cx1
Weight (g)	<1.11g
Dimension	12.2×16.0×2.6 mm
encapsulation	LGA 24 pin
Environment Specifications	
Operating Temperature (°C)	-40~+85
Storage Temperature (°C)	-55~+95