

Technical Parameters

signal tracking

Channel	1408 channels, based on NebulasIV
Frequency Range(MHz)	GPS L1C/A, L1C, L2C, L2P(Y), L5 BDS B1I, B2I, B3I, B1C, B2a, B2b GLONASS G1, G2, G3 Galileo E1, E5a, E5b, E6 QZSS L1C/A, L1C, L2C, L5 NavIC L5 SBAS L1C/A

time characteristics

Cold start	< 12S
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Precision

Timing accuracy	20ns
Standard single point positioning accuracy	H \leq 1.5m, V \leq 2.5m (1a, PDOP \leq 4)
Speed measurement accuracy	\leq 0.03m/s (RTK fixed solution, 1a)

RTK initialization time	<5s(D<10km)
RTK initialization confidence	>99.9%
RTK Precision	H: $\pm(8+ 10^*xD)$ mm V: $\pm(15+ 10^*x D)$ mm

Electrical properties

Supply voltage	+3.3V to +3.45V DC
Power consumption	0.95W

Data Format

Differential Data	RTCM V3.X
RTCM3.X	1004 - 1008,1012,1019,1020,1033,1042. 1045/1046,1230

Hardware interface	3 × UART (LVTTTL) 1 × SPI* 1 × I2C* 1 × CAN* (shared with UART3)
Weight (g)	<1.88g
Dimension	17.0 × 22.0 × 2.6 mm
encapsulation	LGA 54 pin
Environment Specifications	
Operating Temperature (°C)	-40~+85
Storage Temperature (°C)	-55~+95