

Technical Parameters

signal tracking

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

time characteristics

Cold start	<30S
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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	0.7W

Data Format

Differential Data	RTCM2.3, RTCM 3.x,
Data Format	NMEA 0183, Unicore, RTCM V3.X
Hardware interface	UARTx2

Weight (g)	<1.9g
Dimension	17×22.4×2.4 mm
encapsulation	LCC 28 pin
Environment Specifications	
Operating Temperature (°C)	-40~+85
Storage Temperature (°C)	-55~+95