

HP50

High Precision Module

HP50 is a high-precision module designed for UT30 tablet. It brings with centimeter-level accuracy to meet GNSS and GIS survey job. It is also able to equip an external GNSS antenna to get better antenna phase center measurement. To achieve high accuracy positioning, user can choose to connect network NTRIP server or directly subscribe L-band service.



GNSS

Satellites Tracking	GPS L1C/A,L1P,L2P, L2C,L5 BDS B1I,B2I,B3I,B1C,B2a,B2b,ACEBOC GLONASS G1/G2 Galileo E1,E5a,E5b,ALTB0C,E6 QZSS L1C/A, L1C,L2C,L5 SBAS ¹ L-Band: Atlas H10/H30/Basic
Channels	800
Update Rate	1 Hz

Performance

RTK	H: 8 mm + 1 ppm V: 15 mm + 1 ppm
Code Differential	H: 0.3 m V: 0.6 m

SBAS	H: 0.3 m V: 0.6 m
L-Band	Atlas H10: 4 cm RMS Atlas H30: 15 cm RMS Atlas Basic: 30 cm RMS
Correction Data	CMR, CMR+, RTCM2, RTCM3, RTCM32

Physical

Dimension	Φ150 mm x H65 mm
Weight	170 g
Operating Temperature	-20°C ~ +55°C
Storage Temperature	-40°C ~ +70°C
Shock	Survive a 1.2 m drop on concrete floor
Vibration	Vibration resistant
Humidity	Up to 95%

