

Parameters	Content
GNSS signals	GPS L1, L2; BDS B1, B2
Channel numbers	Positioning: 8; occultation: 6 (GPS), 4 (BDS)
Sampling rate	Positioning & ionosphere occultation: 1 Hz Atmosphere occultation: closed loop 50 Hz, open loop 100 Hz
Output observations	Type: L1C/A, L2C, L2P/ B1I, B2I Contents: pseudo-range/carrier phase/SNR
Clock stability	1×10^{-12} (1 s Allan)
The peak gain of occultation antenna	10 dBi (azimuth: $\pm 35^\circ$; horizontal: $\pm 7.5^\circ$)
Pseudo-range precision	≤ 30 cm
Carrier phase precision	≤ 2 mm
Real-time positioning precision	≤ 10 m
Total weight	≤ 14 kg
Total power	≤ 40 W
Equivalent noise temperature	250 K
Signal bandwidth	GPS P code: 20.46 MHz BDS: 4.092 MHz