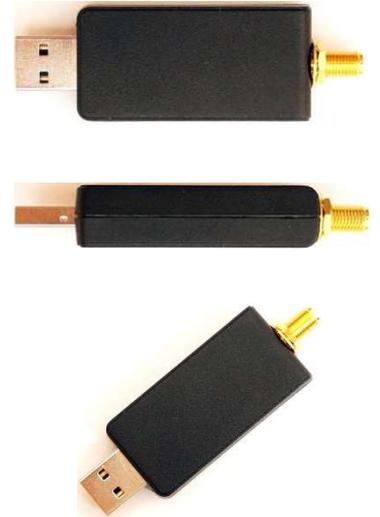


Features:

- 184-channel u-blox F9 engine GPS L1C/A L5, GLO L10F, GAL E1B/C E5a, BDS B1I B2a, QZSS L1C/A L1S L5, SBAS L1C/A NavIC L5
- On-board low noise 3.3V voltage regulator
- USB interface type A connector
- SMA antenna connectors
- Support active antenna
- u-center ublox Evaluation Software
- Extensive visualization and evaluation features
- Backup supercapacitor
- Dimensions with connectors: 75x25x13 mm
- Weight: 16.5 gr.
- Fully assembled and ready to use

Reference: ELT0185



GNSS FEATURES

Receiver type	184-channel u-blox F9 engine Beidou, Galileo, GLONASS, GPS/QZSS
GNSS platform	Concurrent GNSS
GNSS bands	GPS L1C/A L5, GLO L10F, GAL E1B/C E5b, BDS B1I B2I, QZSS L1C/A L1S L5, SBAS L1C/A NavIC L5
Oscillators	TCXO

PERFORMANCE

Horizontal pos. accuracy	
PVT	1.5 m CEP
SBAS	1.0 m CEP
RTK	0.01 m + 1 ppm CEP
SPARTN	< 0.06 m CEP (GPS+GLO+GAL)
CLAS	0.04 m CEP (GPS+GLO+GAL)
Vertical pos. accuracy	
PVT	2.0 m R50
SBAS	1.5 m R50
RTK	0.01 m + 1 ppm R50
SPARTN	< 0.12 m R50
CLAS	0.08 m R50
Convergence time	
RTK	< 10 s
SPARTN	< 45 s
CLAS	< 70 s

Acquisition	Cold start	Hot/Aided start	Nav. update rate		
			RTK	PVT	RAW
GPS+GLO+GAL+BDS	25 s	2 s	7 Hz	9 Hz	15 Hz
GPS+BDS+GAL	25 s	2 s	10 Hz	10 Hz	18 Hz
GPS+GAL	30 s	2 s	15 Hz	20 Hz	25 Hz
GPS+GLO	25 s	2 s	14 Hz	20 Hz	25 Hz
GPS+BDS	30 s	2 s	13 Hz	16 Hz	25 Hz
GPS	30 s	2 s	20 Hz	25 Hz	25 Hz

Velocity accuracy	0.05 m/s
Dynamic heading accuracy	0.3 deg

Sensitivity:

Tracking and Navigation	-167 dBm
Reacquisition	-160 dBm
Cold start	-148 dBm
Hot start	-157 dBm

OTHER FEATURES

Anti-jamming	Active CW detection and removal Dual onboard band pass filter
Anti-spoofing	Advanced anti-spoofing algorithms
Security	Secure boot Secure firmware update
Memory	Flash
RAW data support	Carrier phase, code phase and pseudo-range, Doppler on all signals
Operating temperature	0 °C to +50 °C
Supply voltage	4.5 V to 5.5 V
Supply current	<130 mA (without external antenna)
External antenna requirements	Supply voltage 3.0 V Consumption current <50 mA