

- + Compact and durable metal housing
- + Better dust and weather resistance (IP67)
- + Equipped with IMU sensor that compensates tilting of the receiver
- + WiFi for direct communication with web browser for e.g. downloading data, firmware upgrades and communication between receiver and controller

TI Asahi Co.,Ltd Focusing on true performance

GNSS SPECIFICATIONS

Model		G7H
Channel Configuration		800 channels
		Multi-Frequency GPS, GLONASS
		Beidou, Galileo, QZSS and Atlas
Receiver Board		P20
Signal Tracking	GPS	L1 C/A, L1P, L1C, L2P, L2C, L5
	GLONASS	G1, G2, G3, P1, P2
	BEIDOU	B1i, B2i, B3i, B10C, B2A, B2B, ACEBOC
	Galileo	E1BC, E5a, E5b, E6BC
	QZSS	L1 C/A, L1C, L2C, L5, LEX
	SBAS	L1 C/A, L5
	NavIC (IRNSS) *1	L5
Position Accuracy	L-Band	Atlas
	SBAS (WAAS, GAGAN etc.)	Horizontal / Vertical
	DGPS	0.3 m / 0.5 m 0.3 m / 0.5 m
RTK Performance	Horizontal Accuracy	
Static Performance PPP (Precision Point Positioning)	Vertical Accuracy	8 mm + 1 ppm
	Horizontal Accuracy (Network RTK)	15 mm + 1 ppm 8 mm + 0.5 ppm
	Vertical Accuracy (Network RTK)	15 mm + 0.5 ppm
	Average Time to Work	Typ. < 10 sec.
	Availability/Initialization Reliability	> 99.9%
	Horizontal Accuracy(Long time observation) *2	3 mm + 0.1 ppm
	Vertical Accuracy(Long time observation) *2	3.5 mm +0.4 ppm
	Horizontal Accuracy	3 mm + 0.5 ppm
	Vertical Accuracy	5 mm + 0.5 ppm
		With Atlas Basic (Optional) 0.50 m
Precision Point Positioning, Ports		With Atlas H30 (Optional) 0.25 m
		With Atlas H10 (Optional) 0.24 m
		Lemo 5-pin, external radio and power supply
		Lemo 7-pin, external radio and power supply
Internal Radio Modem	Frequency	410 Mhz - 470 Mhz
	Output Power	0.5 W / 1 W
Cell Modem	Modem	Worldwide LTE
	Frequency Bands	UMTS/HSPA+/GSM/GPRS/EDGE
	Network Protocol	NTRIP, HTTP, FTP
Power	Internal Battery	3,350 mAh / 7.4 V x2
	Current Drain	0.35 A / 12 V
		1.25 A / 12 V max.
	Battery Running Time	Approx. 12 hr: Rover, 10 hr: Base with 2 Batteries
Weight		1.1 kg with 2 batteries
Dimensions		Ø 130 mm x H 100 mm
Environmental Specifications	Operating Temperature	-30 °C to +65 °C
	Storage Temperature	-30 °C to +65 °C
	Shock/Drop	2 m
/elocity Accuracy	Standalone	0.007 m/sec, 0.020 m/sec
Data Output	Raw Data output frequency	up to 10 Hz (20 Hz optional)
	NMEA Data output frequency	up to 10 Hz (20 Hz optional)
	Correction data Protocol	RTCM Ver 2.1, 2.2, 2.3, 3.0, 3.1, 3.2
		CMR, CMR+, sCMRx
Time to First Fix	Cold Start	< 60 sec
	Warm Start	< 10 sec
	Reacquisition	<1 sec
ViFi	· ·	IEEE 802.11b/g
ІМО	Electric Bubble	Yes
	Tilt compensated	Tilt range up to 60°
	Tilt accuracy	10 mm + 0.4 mm/° (up to 30°)
	Reliability	Magnetism interference free
Bluetooth		Class 2
Nemory		Internal 8 GB and MicroSD 8 GB
RoHS		Complied
Vaterproofing		IP67
Certification		CE
Standard Accessories		2 x Li-lon rechargeable battery pack
		* / ·
Junulu Accessories		Battery charger + AC Adapter
		Battery charger + AC Adapter 5/8 inch screw adapter
		Battery charger + AC Adapter 5/8 inch screw adapter Lemo 7-pin communication cable

*1 Hardware ready

*2 Performance, Accuracy and Reliability are dependent upon various factors including satellite geometry, number of satellites, ionospheric conditions, atmospheric conditions and multipath.

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