

GNSS L1, L2 Base, Rover And Data Collector eGPS HC3-RTK



*Revolutionize the Way
You Work Around
the World.*

*Works as a GNSS Base or Rover and as a Data Collector for
Your Existing GNSS, Total Station or Robotic Total Station!*

Buy this unit with confidence knowing you can use it with yesterday's total stations and robots with external radios and today's GNSS receivers, total stations and robots using long range Bluetooth.

Long Range Bluetooth

Building on the success of the HC1 and HC2, the HC3 comes with a 1 GHz CPU and upgraded u-blox chip in addition to the external long range Bluetooth antenna introduced with the HC2. The long range Bluetooth radios allow two HC3's to work as a base and rover pair to 3000' and beyond using external GNSS antennas. With the proper network correction, a single HC3 will operate as a network rover*! Static sessions are even supported. The long range Bluetooth radio in the HC3 is capable of operating the GeoMax Zoom90 robot beyond 3000'.

**Requires RTCM version 3 messages*

Choice, Choice, Choice

Network connectivity for RTN rovers and file transfer is accomplished through the convenient internal 3.5G GSM modem or WiFi, depending on the wireless coverage in your area.

Features

- ▶ Internal u-blox ZED-F9P high precision L1/L2 multi-constellation GNSS receiver (see back)
- ▶ Base, Rover and RTN* capable
- ▶ IP54 - Limited protection against dust and water
- ▶ 6500mA battery
- ▶ 9 pin serial port
- ▶ 3.7" sunlight readable screen
- ▶ 3.5G GSM modem, WiFi, Bluetooth and 3000 ft long range Bluetooth
- ▶ 1 year warranty
- ▶ 1 GHz, 512MB RAM, 1GB storage expandable to 32GB
- ▶ Optional external antenna for survey accuracy

eGPS HC3-RTK Data Collector



eGPS HC3-RTK Data Collector

Overview

Processor	1 GHz
Storage	1GB (expandable to 33GB using a MicroSD card)
RAM	512MB
Operating System	Windows Embedded 6.5
Multi-Language	✓
Keypad	27 numeric + programmable keys
Mic	✓
Speaker	✓
Display	3.7" sunlight readable with integrated touchscreen
Display Resolution	480 x 640
Camera	5 megapixel
Dimension	7.87"(W) x 3.78"(H) x 1.26"(D)
Weight	1.2 lbs. with battery

Communications & Data Storage

Long Range Bluetooth	HC3 Base to HC3 Rover: 3000 ft; HC3 to Zoom90: 3050 ft
GSM/3G	3.5
WiFi	✓
USB Port	Type B USB
Serial Port	DB9 (RS232) (COM2)
Voice	✓

Power

DC Input	DC 5 V, 1 A
Detachable Li-ion Battery	6500 mA, 3.7 V

Environment

Operating Temperature	-20 °C ~ +60 °C (-4 °F ~ 140 °F)
Storage Temperature	-30 °C ~ +70 °C (-22 °F ~ +158 °F)
Limited Dust and Water	IP54
Drop	1.2 m protection

Supported GNSS and Signals on ZED-F9P

Parameter	Specification
u-blox ZED-F9P	184 channel u-blox F9 engine GPS L1C/A L2C, GLO L1OF L2OF, GAL E1B/C E5b, BDS B1I B2I, QZSS L1C/A L2C

AH-3232 Lightweight Helix Antenna

GPS	GLONASS	Galileo	BeiDou
L1C/A (1575.42 MHz)	L1OF (1602 MHz + k*562.5 kHz, k = -7, ..., 5, 6)	E1-B/C (1575.42 MHz)	B1I (1561.098 MHz)
L2C (1227.60 MHz)	L2OF (1246 MHz + k*437.5 kHz, k = -7, ..., 5, 6)	E5b (1207.140 MHz)	B2I (1207.140 MHz)

Specifications are subject to change without notice.

Standard Accessories

- ▶ Belt clip with stylus
- ▶ USB connectivity cable
- ▶ DC charger
- ▶ Serial cable
- ▶ Clear screen protector
- ▶ External Bluetooth antenna
- ▶ External GNSS antenna cable
- ▶ HW-02 mounting bracket and claw
- ▶ Helix antenna

Optional Accessories

- ▶ AS1-FS GNSS antenna
- ▶ 2 meter GNSS pole
- ▶ Bipod
- ▶ RTKLIB (microSD card)
- ▶ Static manual
- ▶ SurvCE GPS
- ▶ SurvCE Total Station
- ▶ SurvCE Robotics

We will not let you fail.



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