

GNSS Receiver Champion PRO

Professional Quality
at an Affordable Cost.



A Transceiver that can be Used as a Base or Rover

The Champion PRO is a fully integrated GNSS transceiver with a GPRS modem and is available to you at a cost less than most brands. Built around the world's most advanced technology, the PRO is engineered for the real world. With full IP67 protection and a lightweight, compact design, the PRO is future-proof.

Teaming Technology

By pairing the industry's most advanced GNSS board, the Champion PRO GNSS rover delivers unmatched power, accuracy and performance.

Industry Support

The PRO GNSS receiver is compatible with all types of software and can store RINEX 2.11 files directly.

Accessories

The Champion PRO transceiver is engineered for base or rover, static, RTK or RTN.

The PRO GNSS receiver kit includes:

- ▶ GNSS Receiver
- ▶ Antenna
- ▶ Pole
- ▶ Charger
- ▶ Battery charger
- ▶ USB connector cable
- ▶ Serial connector cable
- ▶ Batteries
- ▶ Champion 64GB thumb drive

Highlights

- ▶ Configure with HTML via WiFi
- ▶ BD930 GNSS engine
- ▶ Lightweight, compact design
- ▶ Advanced GNSS antenna
- ▶ Native Rinex 2.11 file format
- ▶ NTRIP caster for Internet base



Champion PRO



Champion
INSTRUMENTS

Champion PRO

GNSS Specifications

220 channels with simultaneously tracked satellite signals*

GPS	L1 C/A, L2E, L2C, L5
GLONASS	L1 C/A, L1 P, L2, L2 C/A, L2 P, L3
BeiDou	B1, B2
Galileo	E1, E5A, E5B, E5AltBOC
SBAS	WAAS, EGNOS, MSAS

Performance Specifications

Real-Time Kinematics (RTK)

Horizontal	8 mm + 1 ppm RMS
Vertical	15 mm + 1 ppm RMS
Initialization Time	< 5 s
Initialization Reliability	> 99.9%

Rapid Static

Horizontal	5 mm + 1 ppm RMS
Vertical	10 mm + 1 ppm RMS

Post Processing Static

Horizontal	2.5 mm + 0.5 ppm RMS
Vertical	3.5 mm + 0.5 ppm RMS
Baseline Length	≤ 300 km

Physical Specifications

Size	5.0 in x 5.0 in x 3.3 in (127 mm x 127 mm x 84.6 mm)
Weight	1.01 kg with battery (35.63 oz)

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
Storage Temperature	-40 °C to +80 °C (-40 °F to 176 °F)
Humidity	100% condensation
Waterproof & Dustproof	IP67 - protected from temporary immersion to depth of 1 meter
Drop	2 m protection

Electrical Specifications

Li-ion Battery Capacity	3400 mAh/8.4 V
Battery Life	Typical 4 hours in RTK mode
Int. UHF Base	3 h
Int. UHF Rover	5.4 h
Network Rover	5.5 h
External Power	12 ~ 36 VDC

Auto switch between battery and external power

Communication

1x UHF antenna port

1x 7-pin LEMO USB port, for power supply, data download

1x 7-pin serial port, for power supply, correction output

Integrated GSM/GPRS 3G modem

Multimode Bluetooth completely compatible with Android, Windows Mobile, and Win 7/8/10 OS

WiFi, 802.11 b/g/n, supporting AP, 150 m distance, 108 Mbps

Button 1x power button, 1x FN button

LED indicator 1x power, 1x SVs, 1x corrections, 1x WiFi, 1x data logging

Radio Modem Internal Rx/Tx: 403 - 473 MHz; External Tx DL5: 1 W - 20 W adjustable

Data Formats

RTCM 2.1, RTCM 2.2, RTCM 2.3, RTCM 2.x, RTCM 3.x, RTCM 3.2, CMR, CMR+, SCMRX

NMEA0183 output

RINEX and HCN outputs for GNSS raw data

NTRIP

Data Storage

32G

HCN, RINEX 2.11/3.02

GPS device mounts as a USB external hard drive

**Reception is dependent upon firmware versions and licensed features*

Standard Accessories

- ▶ UHF bar antenna (450 - 470 MHz)
- ▶ Optional OTG cable
- ▶ USB cable with power socket
- ▶ Optional serial cable with power socket
- ▶ Lithium batteries
- ▶ Auxiliary H.I. tool
- ▶ Tribrach adapter
- ▶ Hard case

Specifications are subject to change without notice. Champion, Champion PRO are trademarks of Champion Instruments, LLC.

We will not let you fail.



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