

GINTEC CY F90 GNSS RECEIVERS BROCHURE

Multi Constellation with L-Band and SBAS

The F90 tracks GPS, GLONASS, Galileo, BeiDou, and can maximize the tracking to observe all visible GNSS satellite signals, thereby providing maximum performance for accuracy and real-time measurements. The receiver also supports L-Band function, allowing cm accuracy just with one receiver.

Gintec's F90 has the fastest RTK performance we have seen yet. It can quickly search for available satellites and produce fixed solutions in mere seconds, under the right conditions. Even in the harsh environmental conditions of Borneo, under heavy foliage, the F90 has been proven to work well with reliable accuracy.



KEY FEATURES

Highly integrated internal components

The F90 has highly integrated Bluetooth, Wi-Fi and 4G network modules, which minimizes internal signals crosstalk. The powerful 360-degree omni-direction signal receiver in the F90 enables full omnidirectional communications.

Third generation tilt surveying technology

Built with a highly sensitive E-bubble and brand-new tilt survey algorithm, the F90 is calibration-free. Immune to magnetic disturbance and free from the traditional limitations of tilt angles, the F90 can measure points where a vertical placement of the pole is not possible such as corners.

All-protocol compatible internal radio

Initially adopted by Gintec's independent R & D, the TRM series internal radio is now a common feature in many PRC-built GNSS receivers. The TRM radio enables frequency band changes from 410-470MHz and communication with protocols like SATEL, PCC-GMSK, TrimTalk 450s, South, TrimMark III (19200) and GeoTalk, GeoMark. The F90 is able to easily achieve 5 km radio operation with only 1 Watt radio.

4G Network

The F90 has a state-of-the-art 4G module, with guarantees a stable 4G connectivity regardless of where the unit is on the globe.

GINTEC F90

Technical Specifications

Multi-Connectivity and WEB UI Control

The F90 provides two methods of connecting the receiver and controller – Bluetooth or Wi-Fi connection. The second generation WEB UI on the F90 is fully compatible with all devices and browsers, allowing users to conveniently control the receiver on their preferred device (e.g. mobile phone), without the need of a traditional controller.

Long Life Battery

Inserted with 2 smart hot-swappable Lithium batteries, the F90 can work up to a maximum of 10 hours non-stop. Battery level can be viewed at the press of a button. The design also sees a reduction of 20% power consumption.

Weight & Dimension

The F90 is Gintec's smallest and lightest GNSS receiver. Even with the new, more durable, magnesium alloy enclosure, the F90 only weighs only 1 kg and measures at a mere 140mm x 157mm x 76mm. Accuracy, durability, and reliability, without all the hassle!

Port protection

Port covers protects the ports from water and dust. The ports are embedded within the device, and their covers lower than the outer shell to prevent damage when dropping. The covers are marked clearly with their function for user convenience.

Cloud Service

The cloud service on the field software, SurPad, enables simultaneous work in field and office. Data is promptly uploaded and backed-up when internet connection is available, which greatly streamlines workflow.

Alarm system

In UHF mode, when the base is moved or has low power or detects no satellites, the rover will alarm immediately.

GNSS

GNSS Board	TRIMBLE BD990
Channels	336
Satellites	GPS: L1 C/A, L2C, L2E, L5 GLONASS: L1 C/A, L2C, L3 BeiDou: B1, B2, B3 Galileo: E1, E5A, E5B, E5 AltBOC, E6 IRNSS: L5 QZSS: L1CA, L1C, L2C, L5 SBAS: L1, L5w
Update Rate	50 Hz
Static Accuracy	Horizontal ± 2.5 mm + 0.1 ppm RMS Vertical ± 3.5 mm + 0.4 ppm RMS
RTK Accuracy	Horizontal ± 8 mm + 1 ppm RMS Vertical ± 15 mm + 0.4 ppm RMS

POWER

Battery	Dual Batteries, 7.2V/3400mAh*2 *Can work at least 10 hours
Input	9-28V DC

INTERFACE

TNC	For UHF Antenna
5 pins	External radio & external power
7 pins	NMEA Output + USB Port
Others	SIM slot & TF slot
Buttons	Power button with indicators
Indicator	4 indicators: Satellites, Datalink, Bluetooth, WIFI Status
Language	Supports TTS Multi language voice

ENVIRONMENT

Work Temperature	-30°C ~ + 65°C
Stock Temperature	-40°C ~ + 80°C
Protection	IP 67
Shock	Withstand 2 meters pole drop, 1.2m drop without pole
Humidity	100%

PHYSICAL

D x H	157 mm x 76 mm
Weight	1.2 KG with 2 batteries



INTEC MARKETING SERVICES SDN BHD
LOT 8678, PENDING COMMERCIAL CENTRE
JALAN PENDING, KUCHING, 93450
SARAWAK, MALAYSIA

Phone: +6082 344 596
Email: sales@intec.com.my
Website: www.intec.com.my