GEOQUIP
SPECIALISTS IN SPATIAL EQUIPMENT

X91 GNSS

CHC Orient the future

KEY FEATURES
FUTURE PROOF GNSS TECHNOLOGY

Embedded leading GNSS core module
GPS/GLONASS/GALILEO

CONNECTIVITY

Built-in GPRS modem and UHF Radio

COMPATIBILITY

Seamless interoperability with major GPS/GNSS manufacturers

COMPACT & RUGGED

Small, lightweight and rugged design for demanding environment

The CHC X91GNSS is a compact GNSS receiver designed for high accuracy and productivity even in harsh environment. Powered by leading GNSS core engine, the X91 GNSS provides a cost effective solution to any surveying task.

Fully Integrated
Built-in GNSS engine, antenna, UHF and GSM/GPRS modules, Bluetooth® communication in one single unit to make your everyday work simple.

Compact and lightweight
The size of 18cm×8cm makes the new X91 only weight 1.25KG (Including battery). It significantly increases surveyors field work production.

Optimized for Network RTK
Connection to GPS or GPS+GLONASS RTK Networks is made easy and benefits from the unique X91 auto-connect feature.

Compatibility

The X91 RTCM compliance and UHF interoperability with major GPS brands allow a trouble free integration into an existing pool of survey instrument.

Competitive and Reliable
Outstanding performances and reliability at competitive price – the X91 is the perfect choice for demanding survey applications.

Tel: 086 122 3345 Email: info@geoquip.co.za Website: www.geoquip.co.za Fax: 086-670 8452

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GNSS characteristic

220 channels with simultaneously tracked satellite signals :
− GPS: L1C/A,L2C, L2E, L5
− GLONASS: L1C/A, L1P, L2C/A, L2P
− SBAS: WAAS, EGNOS, MSAS
− Galileo: GIOVEA
and GIOVEB
. Advanced multipath mitigation
. Low noise carrier phase measurement

Performance specifications

Real Time Kinematics (RTK)
− Horizontal: 10mm+1ppm RMS
− Vertical: 20mm+1ppm RMS
− Initialization time: 10s
− Initialization reliability: typical >99.9%
. Post Processing Static
− Horizontal: 2.5mm+1ppm RMS
− Vertical: 5mm+1ppm RMS
− Baseline Length: ≤300km

Communications

. 1 RS232 serial port
. 1 high-speed USB
. Integrated GSM/GPRS modem
. Integrated Bluetooth ® communications port
. Optional radio modem
− CHC DL3 : 1W20W
adjustable (2)
− Bandwidth (3): 410-430 / 450-470 Mhz
. Protocols
− RTCM2.1, RTCM2.3, RTCM3.0, CMR, CMR+
input and output
− NMEA0183 and GSOF outputs
− RINEX and HCN outputs for GPS raw data

Physical

. Size (H×D): 80mm×180mm
. Weight: 1.25Kg with battery
. Working Temperature: -30 °C to +65 °C
. Storage Temperature: -40 °C to +75 °C
. Humidity: 100% condensation
. Dustproof: IP67
. Waterproof : protected from temporary immersion to depth of 1 meter, floating.
. Shock : survive a 2 meters drop onto concrete

Electrical

. Typical power consumption: 2.6W
. Battery capacity : 2400mAh
. Operating times on internal battery : 9 hours (Static), 5 hours(RTK)
. External power input : 9-18VDC

Software

. Optional Landstar field software
− Intuitive and easy to use data field survey software (logging, stake-out, site calibration, …)
. Optional SurvCe ® field software
− Complete data collection solution for RTK GPS and Total Stations (optional)
− Combines advanced functionality and ease-ofuse.

(1) Accuracy, TTFF and reliability specifications may be affected by multi path, satellite geometry and atmospheric conditions. Performances assume minimum of 5 satellites and follow up of recommended survey practices.
(2) UHF type approvals are country specific
(3) 410-430 Mhz setting on demand
Specifications are subject to change without notice.

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