



SF-3040

- Multi-frequency, Multi-Constellation Support
 - GPS & GLONASS
- Ultra RTK™ (GPS + GLONASS)
- Network RTK support
- Integrated StarFire receiver supporting
 - RTK Extend™
 - 5cm standalone operation
- UHF internal radio option
- Removable SD card for static survey



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NavCom's SF-3040 Pole-mount GNSS StarFire™/RTK Extend™ Receiver provides both RTK-level accuracy up to 40 km away from the base station or stand alone DGPS five centimeter level position accuracy anywhere in the world, any time with StarFire.



The SF-3040 supports Ultra RTK™, which allows RTK accuracy (1cm, +0.5ppm) at up to 40km from the base station. Combined with NavCom's industry-exclusive RTK Extend™, users can work in challenging environments and maintain RTK-level accuracy even during radio outages for up to 15 minutes.

The SF-3040 is StarFire capable, giving users access to the first Global Satellite Based Augmentation System (GSBAS) capable of real-time five centimeter accuracy. Performance is no longer a function of your distance from a reference station, so you have the freedom to use StarFire anywhere in the world.

Powered by the Sapphire™ Engine, the SF-3040 provides 66 channel tracking, including multi-constellation support for GPS, GLONASS, and SBAS. It also provides patented superior signal sensitivity in shaded environments.

Designed for all day use in surveying environments it includes several I/O options, a compartment for an Optional 1 Watt internal UHF radio, removable SD card and hot-swappable batteries.

FEATURES

- Light weight, rugged land survey receiver
- Operates as an RTK base or rover
- Multi-constellation support
 - GPS & GLONASS
- Ultra RTK (up to 40km baseline)
- StarFire Over IP delivery (Optional)
- RTK Extend™ – Coast through base station outages
- Dual hot swappable batteries for continuous operation
- UHF radio option
- All-in-view™ tracking with 66 channels
- Built-in StarFire receiver
- High sensitivity / low signal level tracking
- Fast acquisition / re-acquisition
- Superior interference suppression (both in-band & out-of-band)
- Patented multipath rejection

SYSTEM INCLUDES

- 2 - Batteries
- Battery charger
- 2GB removeable SD memory card
- Serial and USB cables

OPTIONAL ACCESSORIES

- UHF Radio transceiver (up to 1 watt)
- AC/DC power cable
- Unterminated power cable
- Automotive power adapter
- Additional serial cable

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SPECIFICATIONS

PERFORMANCE⁽¹⁾

- Tracking (Carrier & Phase):
 - GPS L1, L2, L2C & L5 carrier, CA, L1P, L2P & L2C code
 - GLONASS G1 & G2 carrier, CA & P code
 - SBAS WAAS, EGNOS, MSAS & GAGAN
- Accuracy (RMS)
 - RTK (<40km) Horizontal / Vertical
 - RTK Extend (<15min) 1cm + 0.5ppm / 2cm + 1ppm
 - StarFire 3cm + 1ppm / 6cm + 2ppm
 - Velocity <5cm / <10cm
 - Post Processing 0.01ms
 - 5mm + 0.5ppm / 10mm + 0.5ppm

COMMUNICATIONS

- Optional UHF radio 1 watt, 403-473MHz
- Data message formats
 - NMEA-0183 ALM, GBS, GGA, GLL, GRS, GSA, GST, GSV, RMC, RRE, VTG, ZDA, NCT proprietary
 - Differential Correction RTCM 2.3, RTCM 3.1, NTRIP, SBAS, and StarFire (proprietary)
 - RTK Correction CMR/CMR+, RTCM 2.3, RTCM 3.1, NavCom Proprietary Ultra RTK™
 - Ports 2 x RS232
 - USB 2.0 (Device)
 - Bluetooth™
- Position & Raw data rates 1Hz, 5Hz, 10Hz
- Memory Removable SD card

PHYSICAL/ENVIRONMENTAL

- Size (D x H): 203mm x 111 mm (8in x 4.36in)
- Weight (includes batteries): 1.45kg (3.2lbs)
- Power:
 - Input: AC/DC Adapter 110/220VAC, 12VDC Nominal 0.5A (9.0V to 32VDC)
- Temperature (ambient):
 - Operating: -20° to +45° C (-4° to +113° F)
 - Storage: -40° to +85° C (-40° to +185° F)
- Enclosure Rated IP66 (water resistant/dustproof)
- Certifications FCC / CE
- Connectors:
 - Power LEMO, 2-Pin
 - Com1/USB LEMO, 7-Pin
 - Com2 LEMO, 6-Pin
 - UHF Ant TNC

⁽¹⁾ Performance dependent on location, satellite geometry, atmospheric conditions and GNSS corrections.

Technical specifications subject to change at NavCom's discretion



Underside of the SF-3040