



SF-3040

- **Multi-frequency, Multi-Constellation Support**
 - GPS, GLONASS & Galileo/Compass ready
- **Ultra RTK™ (GPS + GLONASS)**
- **Network RTK support**
- **Integrated StarFire receiver supporting**
 - RTK Extend
 - 10cm 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 decimeter 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 decimeter 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, Galileo, Compass 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 & Galileo/Compass ready
- Ultra RTK (up to 40km baseline)
- 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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20780 MADRONA AVENUE, TORRANCE, CA 90503 USA
 WWW.NAVCOMTECH.COM • SALES@NAVCOMTECH.COM
 TEL: +1 310 381 2000 • FAX: +1 310 381 2001

SPECIFICATIONS

PERFORMANCE⁽¹⁾

- Tracking (Carrier & Phase):

GPS	L1, L2, L2C & L5 carrier, CA, L1P, L2P & L2C code
GLONASS	G1 & G2 carrier, CA & P code
Galileo	E1, E5a
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	<10cm / <15cm
Post Processing	0.01ms
	5mm + 0.5ppm / 10mm + 0.5ppm

COMMUNICATIONS

- Optional UHF radio
- Data message formats

NMEA-0183	1 watt, 403-473MHz
Differential Correction	ALM, GBS, GGA, GLL, GRS, GSA, GST, GSV, RMC, RRE, VTG, ZDA, NCT proprietary
RTK Correction	RTCM 2.3, RTCM 3.1, NTRIP, SBAS, and StarFire (proprietary)
Ports	CMR/CMR+, RTCM 2.3, RTCM 3.1, NavCom Proprietary UltraRTK™
- Position & Raw data rates
- Memory

PHYSICAL/ENVIRONMENTAL

- Size (D x H):
- Weight (includes batteries):
- Power:

Input:	203mm x 111mm (8in x 4.36in)
	1.45kg (3.2lbs)
	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
- Certifications
- Connectors:

Power	Rated IP66 (water resistant/dustproof)
Com1/USB	FCC / CE
Com2	
UHF Ant	
	LEMO, 2-Pin
	LEMO, 7-Pin
	LEMO, 6-Pin
	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