

EFIX

# F-Net Pro

GNSS INFRASTRUCTURE



■ *Building the intelligent world with precise time and space.*

# SPECIFICATIONS

GNSS characteristics	
Channels	624
GPS	L1/L2/L5
GLONASS	L1/L2
Galileo	E1/E5a/E5b
BeiDou	B1/B2/B3
QZSS	L1/L5
SBAS	L1
GNSS accuracies <sup>(1)</sup>	
Real time kinematic (RTK)	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS Initialization time: < 8 s Initialization reliability: > 99.9%
Post-processing static	Horizontal: 2.5 mm + 0.5 ppm RMS Vertical: 5 mm + 0.5 ppm RMS
Post-processing static (long observation)	Horizontal: 3 mm + 0.1 ppm RMS Vertical: 3.5 mm + 0.4 ppm RMS
Hardware	
Size (L x W x H)	200 mm x 150 mm x 69 mm (7.9 in x 5.9 in x 2.7 in)
Weight	2.15 kg (75.8 oz) with battery
Environment	Operating: -40°C to +65 °C (-40°F to +149°F) Storage: -45°C to +80°C (-49°F to +176°F)
Humidity	100%
Ingress protection	IP68 waterproof and dustproof, protected from temporary immersion to depth of 1 m
Shock	IEC68-2-27, survive a 1-meter pole drop
Electrical	
Power consumption	5 W (3 W in the power saving mode)
Internal battery Capacity	17,000 mAh, 7.4 V
Operating time on internal battery <sup>(2)</sup>	Up to 24 h (depending receiver configuration)
External power	9 V DC to 36 V DC

Communications and Data storage	
Ports	1 x 10-pin LEMO port (external power, RS-232) 1 x USB 2.0 port (data download, firmwa update) 1 x LAN port HTTP / HTTPS, TCP/IP, UDP, FTP, NTRIP Caster, NTRIP Server, NTRIP Client – Simultaneously transmits multiple data stream – Support proxy server and route table – Support Power over Ethernet (PoE) 1 x DB9 port 1 x GNSS antenna port 1 x SIM card slot
Protocols	Correction formats: CMR, RTCM2.x, RTCM 3.x Observables: RINEX2.x, RINEX3.x, BINARY Position/Status I/O: NMEA 0183 output, Met sensor
Internal data logging and position	Output frequency up to 20 Hz (optional), storage capacity 32 GB
External storage	Up to 1 TB
Bluetooth <sup>®</sup>	V 4.1
Wi-Fi	802.11 b/g/n, access point mode
Network modem (Internal 4G modem)	LTE (FDD): B1, B3, B8, all bands with diversity LTE (TDD): B38, B39, B40, B41, all bands with diversity DC-HSPA+/HSPA+/HSPA/UMTS: B1, B5, B8, B9, all bands with diversity TD-SCDMA: B34, B39 EDGE/GPRS/GSM 900/1800 MHz

\*All specifications are subject to change without notice.

(1) Accuracy and reliability are determined under open sky, free of multipaths, optimal GNSS geometry and atmospheric condition. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices.

(2) Battery life is subject to operating temperature.

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