TECHNICAL SPECIFICATIONS

Radio specifications	
Frequency bands	410 MHz to 470 MHz
Transmit power	5 W / 22 W / 28 W
Protocol	CHC, Transparent, TT450S
Physical	
Size (L x W x H)	175 mm x 140 mm x 65 mm (6.9 in x 5.5 in x 2.6 in)
Weight	2 kg (70.5 oz)
Ingress protection	IP67 dust and waterproof, protected from temporary immersion to depth of 1 m
Mount	Tripod bracket
GNSS characteristics	
GPS	L1/L2/L5
GLONASS	L1/L2
Galileo	E 1/E5a/E5b
BeiDo u	B1/B2/B3
QZSS	L1/L5
SBAS	L1
GNSS accuracies	
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-p rocessing 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
Communications and Data storage	
Protocols	Correction formats: CMR, RTCM2.x, RTCM 3.x Observables: RINEX2.x, RINEX3.x, BINARY Position/Status I/O: NMEA 0183 output, Met sensor

Power	
External power	9 V DC to 16 V DC
Hardware	
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 batteryCapacity	17,000 mAh, 7.4 V
Operating time on internal battery (2)	Up to 24 h (depending receiver configuration)
External power	9 V DC to 36 V DC

*All specifications are subject to change without notice.
The use of UHF datalink may be subject to local regulations. Users must ensure that the device is not operated without the permission of the local authorities on frequencies or power output other than those specifically reserved and intended for use without required permit.

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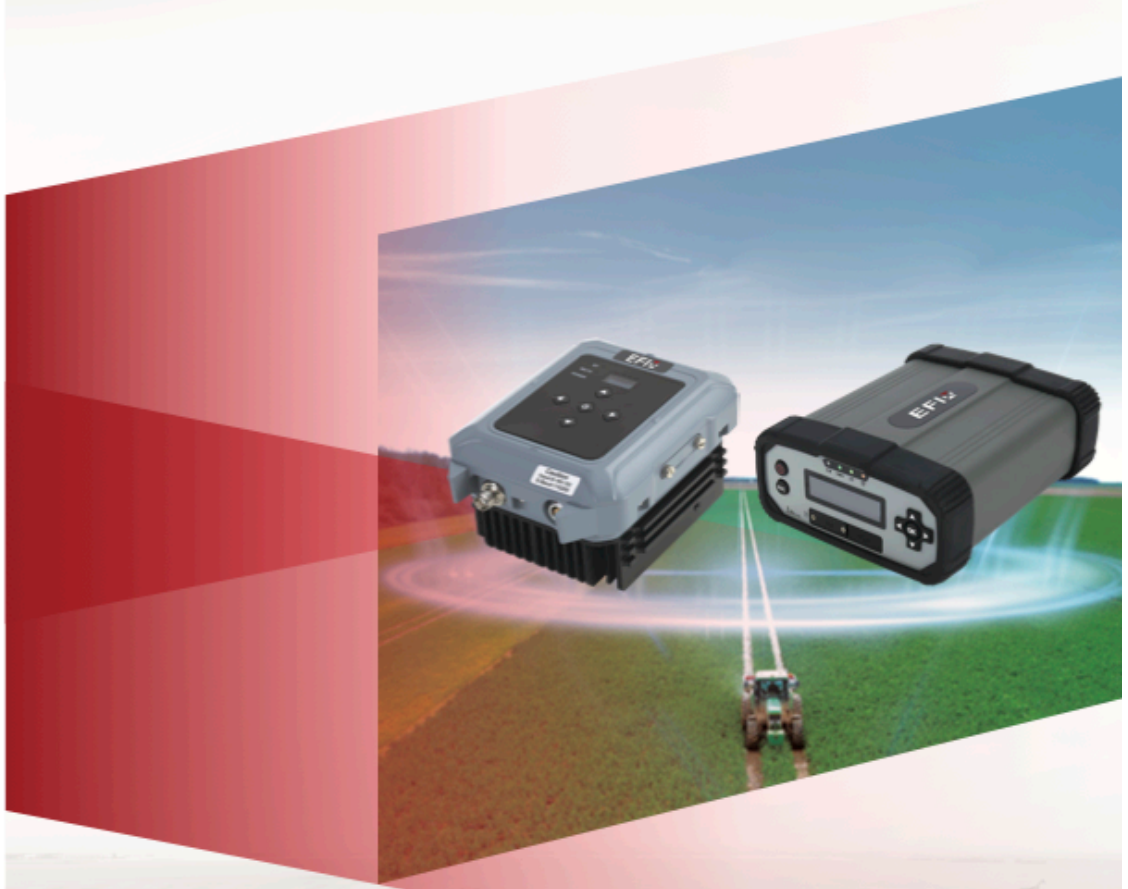
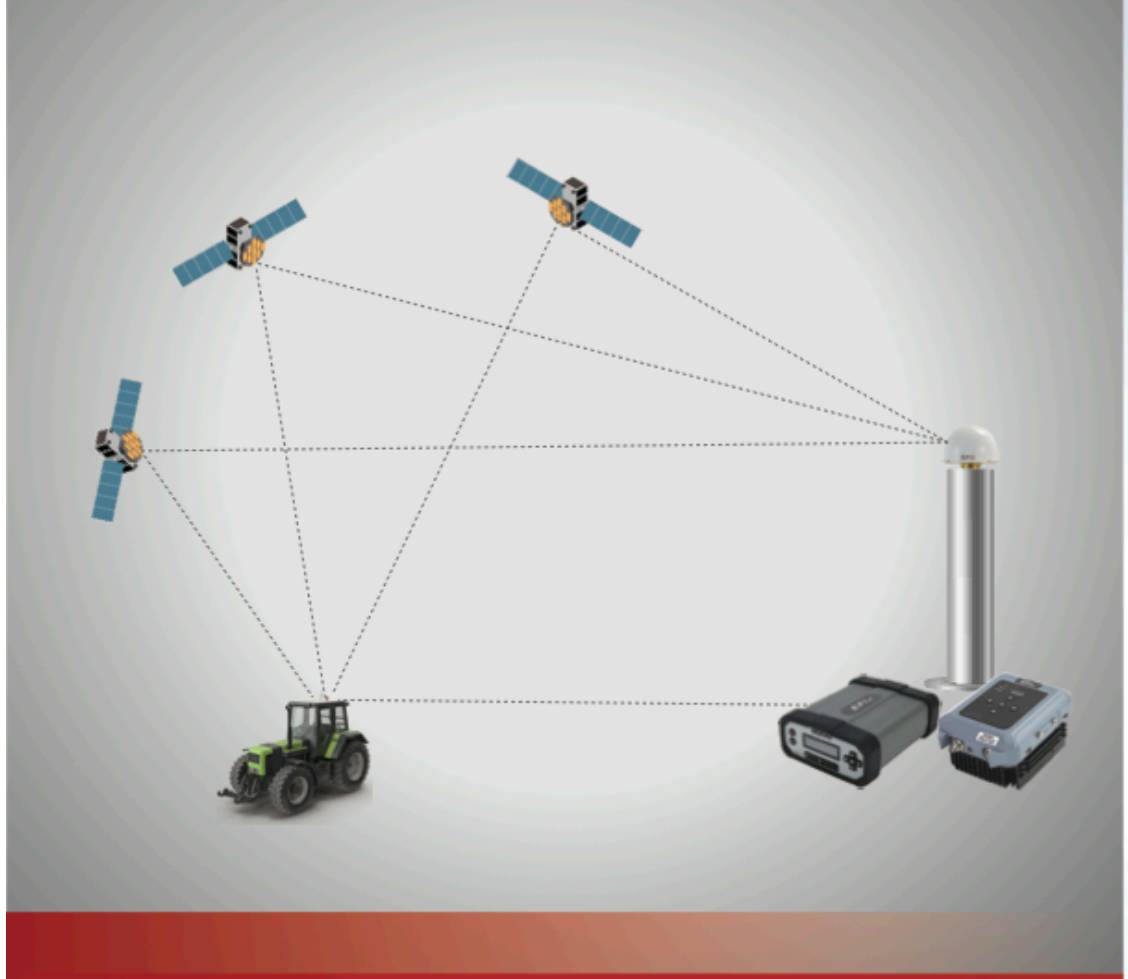


F-NET Pro
Fixed Base Station



The F-NET Pro Fixed Base Station is a powerful GNSS position correction solution. It consists of a F-NET Pro GNSS receiver and a FL3 external transmitter radio. The F-NET Pro GNSS reference station can tracking multi-constellation GNSS signals, large storage and battery capacity, secure and makes it extremely reliable and easy to use. The F-NET Pro GNSS receiver is shock resistant and suits any environment, and it features voltage stabilization, lightning Protection, real-time self-diagnosis, and status monitoring to ensure uninterrupted operation. The F-NET Pro is an advanced GNSS reference station to Provide positioning services in various demanding industries. The FL3 is a UHF radio modem with many innovative features, the FL3 Provides reliable base-to-rover RTK GNSS corrections over long communication distances. In areas not covered by Ntrip service, it can Provide long-distance base station signal service, so that your work becomes more easy and convenient.

624-CHANNEL ADVANCED GNSS TRACKING

Full constellation for superior GNSS raw data The 624-channel F-NET Pro GNSS simultaneously tracks signals from GPS, GLONASS, Galileo, BeiDou, and SBAS satellites with outstanding GNSS raw data quality. The integration of the F-NET Pro GNSS reference stations as the foundation of RTK networks guarantees optimal GNSS RTK corrections resulting in the highest quality GNSS rover positioning.

FLAWLESS GNSS DATA INTEGRITY

Industrial design for optimal data integrity .The F-NET Pro GNSS is IP67-rated water and dust resistant to withstand challenging environmental conditions at its installation site, reducing potential downtime due to moisture or dust ingress. Its integrated design and advanced power supply ensure uninterrupted operation 24 hours a day, 7 days a week.

POWERFUL PERFORMANCE

The FL3 Offers the highest level of performance and reliability for long-range GNSS application any harsh environment. The maximum transmission power of the station is 28W, Channel spacing selectable at 12.5 kHz or 25 kHz. All-weather, water and dust-proof rugged IP67 rating.

MULTIPLE PROTOCOLS AND DATA FORMATS

Support industry-standard UHF protocols， Support CHC, Transparent, TT450S protocol， And support CMR, RTCM2.X, RTCM3.X a variety of data formats, for your signal service downtime more possible.