

P5

GNSS Infrastructure

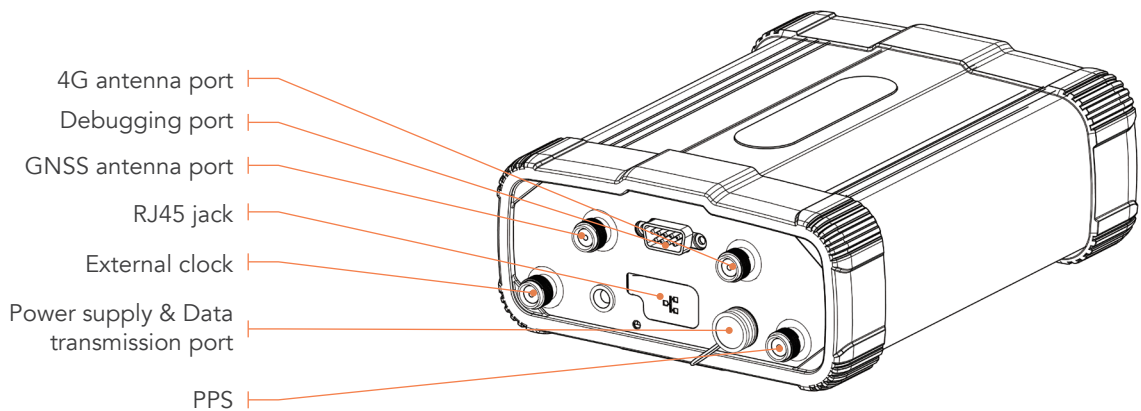
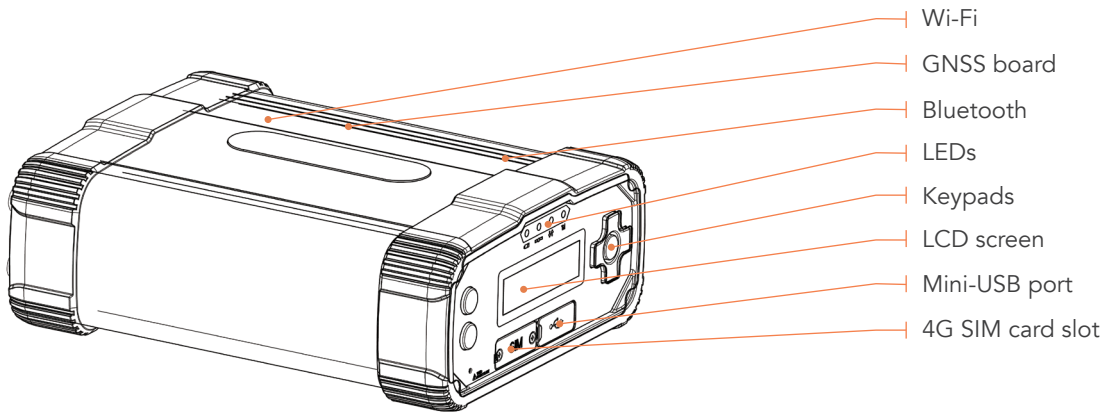


Hardware Description

P5 High-end Reference Receiver

Smart and stable. The multi-functional P5 GNSS reference receiver guarantees outstanding performance in all environments.

With an integrated Linux system, 624 channels for multi- constellation data, as well as the considerable storage and battery capacity, the operation of the P5 GNSS reference receiver is reliable and easy.



Core Technology



624 Channels & Multi-Constellation

With 624 channels, the P5 is designed for simultaneous tracking of GPS, GLONASS, Galileo, BeiDou, and SBAS satellite signals.



Smart Data Management

Cycling GNSS data storage, compressed data format option and up to eight independent logging sessions ensure the efficient use of memory. Data can be accessed via web interface, built-in FTP server, or configured to be pushed to remote FTP sites.



Smart and Reliable

Email alarm and automatic reconnection can be activated by self-diagnose and receiver status monitoring. Multiple user rights, web interface restrictions and HTTPs encryption are applied to prevent unauthorized access. The integrated firewall, port and MAC filtering provide additional security layers.

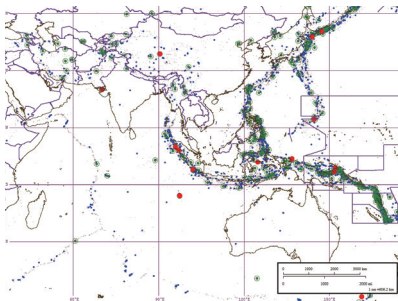


Large and Reliable Storage

With 32GB internal storage and up to 1TB external disk storage, the P5 provides reliable and considerable storage capacity for data logging in multiple industry formats. It delivers a sustainable solution of up to 10-year data storage without extra devices.

Applications

The P5 GNSS reference receiver provides advanced solutions to various demanding industries, such as GNSS ground based augmentation system, deformation monitoring, atmospheric research, seismic study, precision farming, machine control and vehicle and ship navigation.



Özellikler

GNSS characteristics	
Kanal	624
GPS	L1C/A/L2C/L2P/L5Q
GLONASS	L1C/L2C
Galileo	E1C/E5a/E5b
BeiDou	B1I/B2I/B3I/B1C/B2A ⁽¹⁾
QZSS	L1/L5
SBAS	L1
GNSS Hassasiyetleri	
Gerçek Zamanlı Kinematik (RTK)	Yatay : 8 mm + 1 ppm RMS Düşey : 15 mm + 1 ppm RMS Başlama Zamanı: < 8 s Başlama Güvenirliği: > 99.9%
Post-processing static	Yatay : 2.5 mm + 0.5 ppm RMS Düşey: 5 mm + 0.5 ppm RMS
Post-processing static (Uzun Gözlem)	Yatay: 3 mm + 0.1 ppm RMS Düşey: 3.5 mm + 0.4 ppm RMS
Donanım	
Boyutlar (L x W x H)	200 mm x 150 mm x 69 mm (7.9 in x 5.9 in x 2.7 in)
Ağırlık	2.15 kg (75.8 oz) batarya ile
Çalışma Sıcaklığı	Başlama: -40°C to +65 °C (-40°F to +149°F) Depolama: -45°C to +80°C (-49°F to +176°F)
Nem	100%
Su Geçirmezlik	IP68 waterproof and dustproof, protected from temporary immersion to depth of 1 m
Şok ve Vibrasyon	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 ⁽³⁾	Up to 24 h (depending receiver configuration)
External power	9 V DC to 36 V DC

Haberleşme ve Data Kaydı	
Portlar	1 x 10-pin LEMO port (Harici Güç, RS-232) 1 x USB 2.0 port (data indirme, yazılım yükleme) 1 x LAN port HTTP / HTTPs, TCP/IP, UDP, FTP, NTRIP Caster, NTRIP Server, NTRIP Client – Aynı anda birden çok veri toplama iletme – Proxy sunucu ve route tablosu destekler – Ethernet üzerinden güç desteği(PoE) 1 x DB9 port 1 x GNSS anten port 1 x SIM kart yeri
Protokoller	Düzeltilme Formatları: CMR ⁽⁴⁾ RTCM2.x, RTCM 3.x Gözlenebilen: RINEX2.x, RINEX3.x, BINARY Konum/Durum I/O: NMEA 0183 output, Met sensor
Dahili Data Girişi ve Konum	Çıkış Frekansı 20 Hz (opsiyonel), Depolama Kapasitesi 32 GB
Harici Hafıza	1 TB Yükseltilebilir
Bluetooth®	V4.1
Wi-Fi	802.11 b/g/n, erişim noktası modu
Network modem (Dahili Entegre 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

*Specifications are subject to change without notice.

(1) Available with future firmware update.

(2) 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.

(3) Battery life is subject to operating temperature.

(4) Available with future firmware update.

(5)



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