

RECEIVER

| | |
|----------------------------|--------------------------------------|
| Satellite Tracked | GPS: L1 C/A, L1C, L2C, L2P, L5 |
| | GLONASS: L1 C/A, L2C, L2P, L3, L5 |
| | BEIDOU: B1, B2, B3 |
| | GALILEO: E1, E5 AltBOC, E5a, E5b, E6 |
| | QZSS: L1 C/A, L1C, L2C, L5, L6 |
| | SBAS: L1, L5 |
| IRNSS: L5 | |
| Channels | 555 |
| Position Rate | 5 Hz, optional up to 20 Hz |
| Signal Recacquisition | < 1 sec |
| RTK Signal Initialization | Typically < 10 sec |
| Hot Start | Typically < 15 sec |
| Initialization Reliability | > 99.9 % |
| Internal Memory | 8 GB |

POSITIONING¹

HIGH PRECISION STATIC SURVEYING

| | |
|------------|--------------------|
| Horizontal | 2.5 mm + 1 ppm RMS |
| Vertical | 5.0 mm + 1 ppm RMS |

CODE DIFFERENTIAL POSITIONING

| | |
|------------|------------|
| Horizontal | <0.5 m RMS |
| Vertical | <1.0 m RMS |

SBAS POSITIONING

| | |
|------------|-------------------------|
| Horizontal | <0.6 m RMS ² |
| Vertical | <1.2 m RMS ² |

REAL TIME KINEMATIC (< 30 Km) - NETWORK SURVEYING³

| | |
|----------------------|-------------------|
| Fixed RTK Horizontal | 8 mm + 1 ppm RMS |
| Fixed RTK Vertical | 15 mm + 1 ppm RMS |

INTEGRATED GNSS ANTENNA

High accuracy four constellation micro-strip antenna, zero phase center, with internal multipath suppressive board

INTERNAL RADIO

| | |
|-----------------|---|
| Type | Tx - Rx |
| Frequency Range | 410 - 470 MHz |
| Channel Spacing | 12.5 KHz / 25 KHz |
| Maximum Range | 3-4 Km in urban environment Up to 10 Km with optimal conditions ⁴ |

COMMUNICATION

| | |
|--------------------|--|
| I/O Connectors | 7-pins Lemo and 5-pins Lemo interfaces. Multifunction cable with USB interface for PC connection |
| Bluetooth | V2.0 Class2/V4.1LE |
| Wi-Fi | 802.11 b/g |
| Web UI | To upgrade the software, manage the status and settings, data download, etc. via smart phone, tablet or other internet enabled electronic device |
| Reference outputs | RTCM 2.1, 2.3, 3.0, 3.1, 3.2 CMR, CMR+, RTCA |
| Navigation outputs | GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL |

POWER SUPPLY

| | |
|--------------|--|
| Battery | Rechargeable 7.2 V - 6800 mAh Rechargeable 7.2 V - 5200 mAh ⁵ |
| Voltage | 9 to 18 V DC external power input with over-voltage protection (5 pins Lemo) |
| Working Time | Up to 10 hours Up to 8 hours ⁵ |
| Charge Time | Typically 4 hours |

PHYSICAL SPECIFICATION

| | |
|-----------------------|---|
| Dimensions | 146 mm x 146 mm x 76 mm |
| Weight | 1.2 Kg |
| Operating Temperature | -30°C to 65°C (-22°F to 149°F) -40°C to 65°C (-40°F to 149°F) ⁵ |
| Storage Temperature | -40°C to 80°C (-40°F to 176°F) |
| Waterproof/Dustproof | IP67 |
| Shock Resistance | Designed to endure to a 2 m pole drop on concrete floor with no damage |
| Vibration | Vibration resistant |