

# TECHNICAL DATA



## HARDWARE COMPONENTS

- RTK GNSS  
Global Reach with Triple-Band Satellite Tracking:
  - GPS: L1, L2, L5
  - GLONASS: L1, L2, L3
  - Beidou: B1, B2, B3
  - Galileo: E1, E5a, E5b, E6
- Carbon Fiber Pole
- Robust 8" Tablet & Display
- Tablet-Mount
- Optional Power Bank for Extended Run Time

## SOFTWARE FUNCTIONS

- Load XML & DXF design files
- Advanced In-field Designs
- Export designs: xml, dxf, csv, kof & pxy formats
- Volume Calculations
- Automatic Point Logging
- Automatic synchronization to UnicontrolCloud and other systems

## ANDROID TABLET



SIM-CARD



INDICATOR LIGHTS

POWER  
BUTTON



5-PIN PORT  
UHF ANTENNA

USB-C

**2-YEAR WARRANTY  
ON HARDWARE**

# TECHNICAL DATA



## GNSS

### Satellites Tracking

- GPS: L1CA/L1P/L1C/L2P/L2C/L5
- BeiDou: B1I/B2I/B3I/B1C/B2a/B2b
- GLONASS: G1/G2/G3, P1/P2
- Galileo: E1/E5a/E5b/E6/ALTB0C

Channels: 448

Signal Reacquisition: < 1 SEC

Cold Start: < 45 sec

Warm Start: < 20 sec

RTK Signal Initialization: < 7 sec

Initialization Reliability: > 99%

Update Rate: 20Hz

## COMMUNICATION

Bluetooth: BT 5.0, BLE

WiFi: 802.11.a/b/g/n/ac

4G Support Band: Global GSM /WCDMA/LTE

SIM Card: Nano

5-pin Port: Connect to external radio & Power NMEA Data Output

USB-C Port: Battery Charge

NMEA Output: GGA, ZDA, GSA, GSV, GST, VTG, RMC, GLL, Binary

Correction Data: CMR, CMR+, RTCM 3.2, RTCM3

On-board memory: 8GB

## GNSS PERFORMANCE

### RTK:

- H: 6 mm + 0.5 ppm RMS
- V: 10 mm + 1 ppm RMS

### SBAS:

- H: 0.6 m RMS
- V: 0.8 m RMS

## INTERNAL RADIO

Type: TX + RX

Radio Emitting Power: 1 Watt

Frequency Range: 410 ~ 470 MHz

Channel Spacing: 12.5 KHz / 25 KHz

Protocol: TrimTalk 450s, PCC-GMSK, PCC-4FSK,

Satel, Satel\_ADL, HITARGET, TrimTalk, HZSZ,

South, TrimMark III, GEOTALK, GEOMARK,

PCCFST, PCCFST\_ADL

UHF Radio Range: 3-5 km

## POWER SUPPLY

Battery: Rechargeable & Built-in

Lithiumion battery, 7.2 V ~ 6800 mAh

Voltage: 9-28 V dc

Working Time:

• U300 - RTK: 17 hours

• Tablet - RTK: 5 hours

Charging Time: 4 Hours

## PHYSICAL

Dimensions: Ø158 mm x H53 mm

Weight: 940 g

Water/Dust Proof:

• U300 - IP67

• Tablet - IP68 MIL-STD-840

Shock: Survives a 2m Drop on Concrete Floor

Vibration: Vibration Resistant

Certificate: CE, FCC