# TECHNICAL DATA

## HARDWARE COMPONENTS

- RTK GNSS
  Global Reach with Triple-Band Sattellite 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
- External Power Source Connection:
  5 Pin Port: 12V Power Source Connection
  USB-C: Optional Power Bank for Extended Run Time

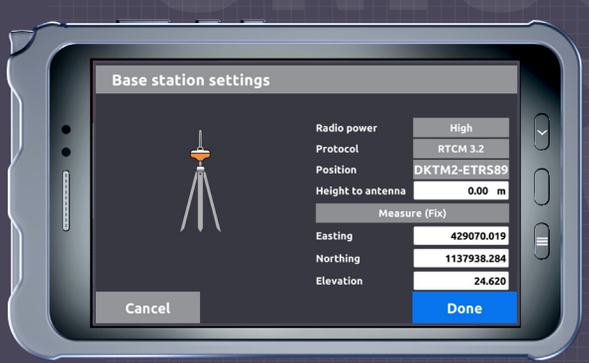
## SOFTWARE FUNCTIONS

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



INDICATOR LIGHTS

### ANDROID TABLET




SIM-CARD




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/ALTBOC

Channels: 448
Signal Reacquisition: < 1 SEC
Cold Start: < 45 sec
Warm Start: < 20 sec
RTK Signal Initalization: < 7 sec
Initalizaton 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
Weigth: 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