

TBA-BT300

GNSS Solution



Key Features

- Meets IP67 standard (Receiver)
- Meets MIL-810G standard
- Global Connectivity: 4G LTE, 3G GSM
- Dedicated GPS Antenna
- Outdoor sunlight readable
- Unique Voice telephony Support
- IMU based Tilt support (upto 30 degrees)



BT-300



TBA Handheld Tablet

Application Highlight

Ultra-functional: for extreme environmental conditions and rough handling Ultra-versatile: Wide range of sensors, wide options of docking devices - Addon Pluggable Barcode (1D/2D) reader



Category	Detail
LCD	10.1" 1920*1200, 400 Nits, 60 Hz
Touch panel	10 points Capacitive screen
Touch Type	TFT Gorilla Glass 3
Size	263*177*10.5mm
Weight	650 g
Drop Test	1.22m
Water proof	IP66, MIL-STD-810G, IEC60529:2001
Work Temp	-20°C~50°C
Storage Temp	-25°C~60°C
CPU	ARM (5G-C) (OCTA Core
OS	Android 11
RAM	8GB LPDDR4
Flash	128 GB
Rear Camera	13 MP
Front Camera	5 MP
Flast Light	Support
WIFI	802.11 a/b/g/n/ac, 2.4GHz/5.8G Dual Band
Network	GSM : B2/B3/B5/B8 WCDMA : B1/B2/B5/B8 TDD : B34/B38/B39/B40/B41 FDD : B1/B2/B3/B4/B5/B7/B8/B17 5G : N1/N3/N5/N28/N38/N41/N77/N78
SIM Card	Nano SIM*2
OTG	YES
External Interface	USB, UART, GPIO
Bluetooth	BT5.1
Ports	Type C, USB 2.0
Battery	9500 mAh, 13 Hrs
Fast Charge	5-9 V 2 A
NFC And T-Card	Yes
Speaker	Stereo
MIC	Support
Audio Jack	1*3.5mm Jack
G Sensor	Support
Gyroscope	Support
Light Sensor	Support
E Compass	Support
GNSS	GPS/Galileo/GLONASS/BeiDou
Key	Power, Volume up/down,/Menu/Back/Home



Test Report - Receiver : ULR- TC91322400000008F, TC564024000000041F
Controller : ULR- TC913224000000007F, TC564024000000040F, TC564024000000033F

BT300 Receiver Specifications

GNSS	GPS (L1, L1C, L1C/A, L1P(Y), L2, L2C, L2P, L5) GLONASS (L1, L1 C/A, L1P, L2, L2C, L2C/A, L2P, L3 CDMA*) BeiDou (B1, B2, B3*) Galileo (E1, E5A, E5B, E5 Alt-BOC, E6*) NavIC (IRNSS: L5*) QZSS (L1C/A, L1C, L1S, L2C, L5, L6*) SBAS (WAAS, EGNOS, MSAS, GAGAN) L-Band*
Signal Tracking	
No. of Channels	990+
MEASUREMENT PERFORMANCE	
Real-time Kinematic	H: 8mm + 1ppm RMS / V: 15mm + 1ppm RMS
Network RTK	H: 8mm + 0.5ppm RMS / V: 15mm + 0.5ppm RMS H:
Post Processing Kinematic High-precision Static	8mm + 1ppm RMS / V: 15mm + 1ppm RMS H: 2.5mm + 0.1ppm RMS / V: 3.5mm + 0.4ppm RMS H:
Static and Fast Static	2.5mm + 0.5ppm RMS / V: 5mm + 0.5ppm RMS H: 25cm
DGPS Position Accuracy	RMS / V: 50cm RMS
SBAS Position Accuracy	H: 50cm RMS / V: 85cm RMS
L-Band	H: 4cm / V: 10cm*
Code Differential	DGPS/RTCM
Initializing Time	2-10s
Initializing Reliability	> 99.9%
PPS(worldwide correction service)	Convergence to full accuracy typically 15-20 min.
Tilt Survey Performance	Additional horizontal pole-tilt uncertainty typically less than 8mm+0.4 mm/°tilt (2.5cm accuracy in the inclination of 30° under ideal circumstances)
COMMUNICATIONS	
Network Communication	Internal 4G Mobile Network TDD-LTE/FDD-LTE/WCDMA/GPRS/GSM GSM 900 MHz & 1800 MHz WCDMA 2100 MHz/900 MHz, LTE Band 1,3,7,8,20
Internal UHF Radio	Satel radio for Tx/Rx Transmitting Power: 0.5W, 1 W, 2 W(Optional) Frequency Range: 403Mhz-473Mhz Working Range: Typically 3~5km, optimal 5~8km
I/O Interface	Bluetooth: V2.1 + EDR, NFC, E-Bubble, USB, TNC antenna port, SIM card slot, TF card slot, DC power input (5-pin), Wi-Fi: 2.4G, 802.11b/g/n
SYSTEM	
Operation System	Linux
Start-up Time	3s
Data Storage	Circulating 16GB Internal Storage; Supports 32G SD card
DATA MANAGEMENT	
	Output rate - >20Hz RTCM2.X, RTCM3.0, RTCM3.1, RTCM3.2, CMR, CMR+ VRS, FKP and MAC option.
GENERAL	
Environmental	IP67 environmental protection Shock resistant body to 2m (6.5ft) pole drop Humidity: 95% condensing Temperature -40°C to 65°C Operating -40°C to 65°C Storage
Physical Properties	Shock and vibration: MIL-STD-810 G, 514.6 Size: 170mm x 95mm Weight: 1.2kg including battery External power supply 12V: Nominal 11-24V DC, range supported. Exchangeable Li-Ion Battery: 5,000mAh Operation Time: 10 hours (RTK Rover)

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