Specifications

Satellite System

- Channel:1408
- BDS: B1I/B2I/B3I/B1C/B2a/B2b
- GPS: L1C/A, L1C, L2C, L2P(Y), L5
- GLONASS: G1, G2, G3
- Galileo: E1/E5a/E5b
- QZSS: L1C/A, L1C, L2C, L5, L6
- NavIC:L5
- SBAS:L1C/A
- Supports B2b-ppp

Performance

- Update rate:20Hz
- RTK survey horizontal accuracy:± (8+1×10⁻⁶D) mm
- RTK survey vertical accuracy:± (15+1×10⁻⁶D) mm
- Static survey horizontal accuracy:± (2.5+0.5×10⁻⁶D) mm
- Static survey vertical accuracy:± (5+0.5×10⁻⁶D) mm

Physical Features

- Dimension:151mm*110mm
- Weight:1.5kg
- Input voltage:
  5-pin end:15V DC, 2A
  Type-C end:12V DC,1.5A
- Battery: built-in lithium battery,3.65V 24000mAh
- Charging mode: Type-C PD 12V fast charging supported
- Voice guidance: English support
- Data interfaces: TNC, 5-pin, Type-C, SIM card slot, 1 button
- Auxiliary function: Seamless IMU tilt measurement technology
- Supports tilt measurement up to 60°
  Tilt measurement accuracy: 8mm+0.3mm/°tilt
  Within 2 cm of positioning accuracy by 30° pole tip
- Human machine interaction: color display screen, 4 LED breathing lights, 1 button

Environment

- Operating temperature:-30°C ~ +65°C
- Storage temperature:-40°C ~ +80°C
- Waterproof and dustproof level:IP67
- Drop: 1.2m free drop at room temperature
- Humidity: 100% condensation resistant

Satellite Antenna

- Internally integrated quad-feed microstrip antenna, zero phase center design, Built-in multipath suppression plate

Wireless Communication

- Bluetooth: built-in, V5.0 + EDR backward compatible/BLE, auto-search & pairing within 5 seconds
- WIFI:802.11 b/g/n/ac,2.4G/5G hotspot + client mode, direct connection to controller via wifi, WebUI wireless management supported
- Radio: transceiver integrated, 410-470MHz, 5W, lora supported
- Communication protocol:
  Supports full protocols including:TrimTalk 450S,PCC-GMSK,PCC-4FSK,Satel,Satel_ADL,HITARGET(9600),HITARGET(19200),TrimTalk (4800),HZSZ,TrimMark III,South 9600,South 19200,GEOTALK,GEOMARK,PCCFST,PCCFST_ADL,PCCEOT_SATEL,FARLINK,Geotalk_Ultra,elink_Ultra
- SIM card slot: SIM card, 4G supported
- External transmission: 2/35W, typical operating range≥15km

Memory/Data

- Built-in storage: 8GB onboard
- Differential output:RTCM2.3,RTCM3.X,RTCM3.2, CMR,CMR+
- Data security: dual backup of measurement data during RTK operation

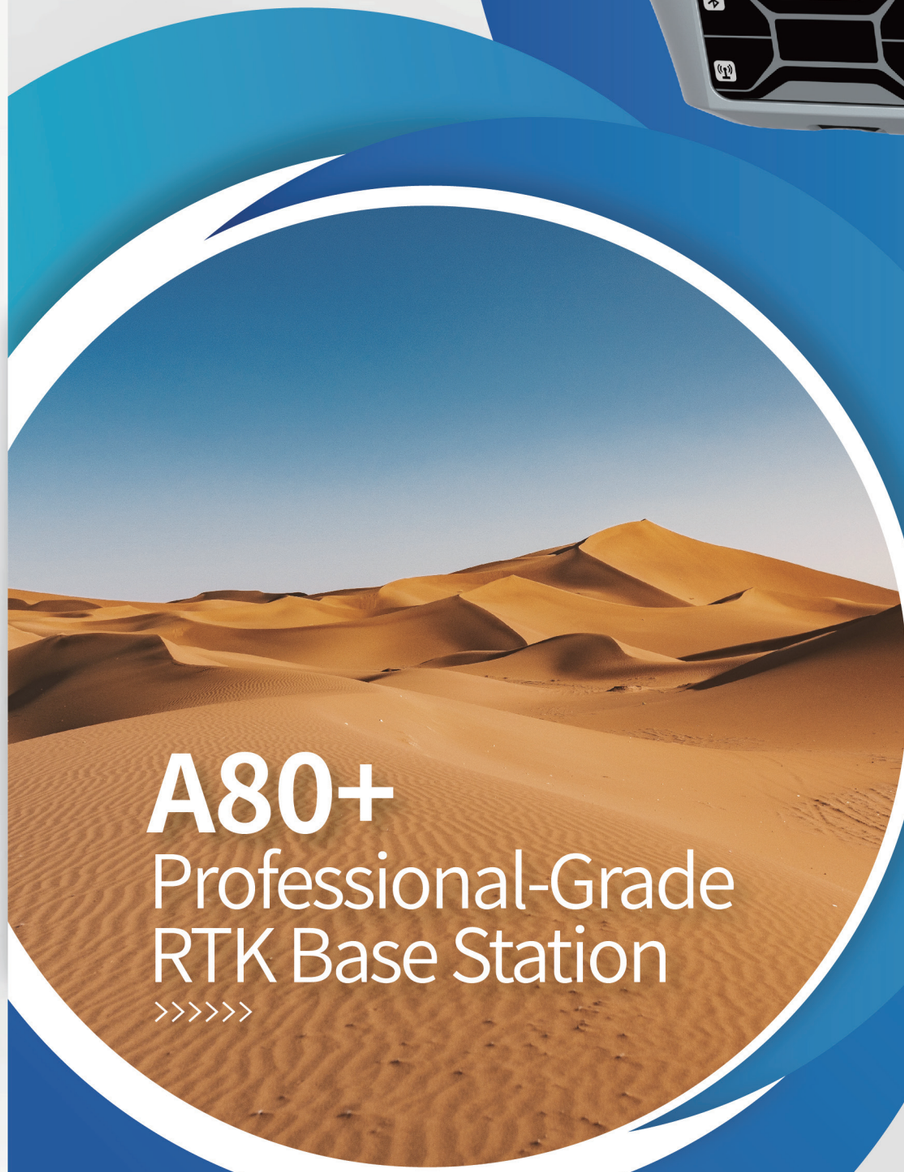
Illustrations, descriptions and technical specifications are not binding and may change.

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QR code for our website

FOIF®
It's professional since 1958





A80+
Professional-Grade RTK Base Station
>>>>>>

Product Introduction

The A80+ is a new generation base station RTK device launched by FOIF. It completely eliminates the various constraints of traditional base stations, requiring no heavy storage battery, long antenna, and external radio. It is equipped with a high-capacity battery, easily supporting all-day operation, and features a built-in transceiver-integrated radio, allowing for operation distances of up to 10 kilometers

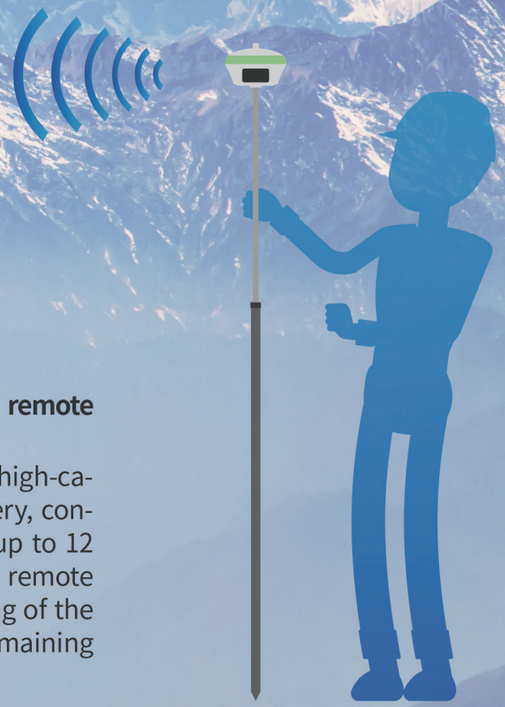








10KM



All constellations,fast satellite search

Equipped with high-precision,high-performance satellite positioning boards, fully supporting the BeiDou Satellite Navigation System, tracking signals from all constellations and all frequency points

Powerful 5W power for transmitting and receiving

Full frequency, full protocol, operational range of 6 to 12 kilometers, intelligent channel scanning, adaptable to various complex terrains such as deserts and Gobi

One-click quick start for base station

With a color screen display, the base station can be started with a single button, improving operational efficiency. It also features a base station displacement alarm to ensure measurement data accuracy

Long battery life, remote monitoring

3.65V 24000mAh high-capacity lithium battery, continuous operation up to 12 hours. Supports remote real-time monitoring of the base station's remaining power