

# simpleRTK3B mPCIe

***affordable and low power dual/triple band GPS/GNSS RTK boards that allow you to reach millimeter-level accuracy in minutes, based on Septentrio Mosaic***



**SKU: AS-RTK3B-MPCIE-L125-MX5**

Dimensions: 52x32x6mm

## Key features

- Millimeter level precision
  - <1cm with a base station up to 35km
  - <1cm with NTRIP up to 35km
  - <1.2m in standalone mode
  - <0.6m standalone with SBAS coverage
- Based on Septentrio Mosaic-X5
- Update rate
  - Default: 1Hz
  - With maximum performance: up to 100Hz
- Multi band: L1, L2 and L5 support, 448 hardware channels
- Protocols:
  - Septentrio Binary Format (SBF)
  - NMEA 0183, v2.3, v3.03, v4.0
  - RINEX v2.x, v3.x
  - RTCM v2.x, v3.x (MSM included)
  - CMR v2.0 (out/in), CMR+ (input only)
- Start-up times:
  - Cold start: <45s
  - Warm start: <20s
  - Re-acquisition: 1s

## Mechanical

- Weight 10 gr
- Compatible with MiniPCIe full-size socket

## Electrical

- Interfaces (check product documentation to verify which are available):
  - USB, UART, Timepulse, Event
- Base and Rover functionality
- Operating temperature Range: -40 to +85deg

## Environmental

- Certification: CE, WEEE, ISO 9001-2015
- Documentation: RED, RoHS

## Supported frequencies

- GPS: L1C/A L1PY L2C L2P L5
- GLONASS: L1CA L2CA L2P L3 CDMA
- BeiDou: B1I B1C B2a B2I B3
- Galileo: E1 E5a E5b E5 AltBloc E6
- QZSS: L1C/A L2C L5
- Navic: L5
- SBAS: WAAS, EGNOS, MSAS, GAGAN, SDCM (L1 L5)