

# mmTR<sup>®</sup> Centro Centralized multi-GNSS processing system

## FEATURES

### GNSS signal tracking

544 hardware channels for simultaneous tracking of all visible supported satellite signals:

- GPS : L1C/A, L1C, L1PY, L2C, L2P, L5
- GLONASS : L1CA, L2CA, L2P, L3 CDMA
- Beidou : B1I, B1C, B2a, B2I, B3
- Galileo : E1, E5a, E5b, E5 AltBoc, E6
- QZSS : L1C/A, L1C, L2C, L5, L6
- Navic : L5
- SBAS : Egnos, WAAS, GAGAN, MSAS, SDCM (L1, L5)
- On module L-band

### NavSys's proprietary technologies

- **OMEGA** : a powerful GNSS integer ambiguity search engine for RTK (**R**eal-**T**ime **K**inematic)
- **MF-PPP** : a unique GNSS measurement filtering-based PPP (**P**recise **P**oint **P**ositioning) engine
- **MMTR** : "MilliMeter TRacker" - a parallel processing engine for millimeter-level infrastructure monitoring
- **Related Patents** : 10-2458817 (Korea)

## PERFORMANCE

### RTK performance

- Horizontal accuracy 6 mm + 0.5 ppm
- Vertical accuracy 10 mm + 1 ppm
- Initialization time ≤ 7 s

### MMTR monitoring performance

- Horizontal accuracy 1 mm + 0.3 ppm
- Vertical accuracy 2 mm + 0.5 ppm
- Response time ≤ 30 min

### GNSS solution

- Position outputs ≤ 20 Hz (default 1 Hz)
- Number of baselines Unlimited (default 10)

## PERIPHERAL

### On-Board

- Processor Intel Celeron N5105 (2.9 GHz)
- Memory DDR4 SO-DIMM (8 GB)
- Networking RJ45 (10/100/1000/2500 Mbps)

mmTR<sup>®</sup> Centro is a real-time, cost-effective GNSS central processing system that communicates with a reference station and multiple rovers and processes a number of baselines simultaneously.



mmTR<sup>®</sup> Centro

## PHYSICAL & ENVIRONMENTAL

### Electrical

- Input voltage 15.0 V
- Power consumption 60 W max

### Environmental

- Operating temp -40 to 85 °C
- Storage temp -55 to 85 °C
- Humidity 5-95% (non-condensing)
- Vibration MIL-STD-810G
- Certification KC, CE, RoHS, WEEE
- Registration No. R-R-Nmm-mmTR-SPlus

### Package

- Size 156(W) × 80(H) × 240(L)mm
- Weight 1,450 g
- Main Storage 500 GB
- Back-up memory size 64 GB