COMPACT, MULTI-FREQUENCY GNSS RECEIVER DELIVERS ROBUST POSITIONING

HIGH PRECISION GNSS, COMPACT SIZE
The multi-frequency OEM7600 offers future ready precise positioning for space constrained applications with an extremely small form factor. Advanced interference mitigation features maintain high performance in challenging environments. With a variety of interface options to facilitate system integration, the OEM7600 provides the most efficient way to bring powerful Global Navigation Satellite System (GNSS) capable products to market quickly. With centimeter level positioning utilizing TerraStar® satellite-delivered correction services, the OEM7600 ensures globally available, high performance positioning without the need for expensive network infrastructure. Anywhere. Anytime.

BUILT-IN FLEXIBILITY
NovAtel®'s OEM7® firmware gives users the flexibility to configure the OEM7600 for their unique application needs. The OEM7600 is scalable to offer sub-meter to centimeter level positioning, and is field upgradeable to all OEM7 family software options. These options include ALIGN® for precise heading and relative positioning, GLIDE® for decimeter level pass-to-pass accuracy and SPAN® GNSS+INS for continuous 3D position, velocity and attitude. NovAtel CORRECT® with RTK delivers centimeter level real-time positioning, or go base-free for centimeter and decimeter PPP solutions using TerraStar corrections.

To learn more about how our firmware solutions can enhance your positioning, please visit www.novatel.com/products/firmware-options.

DESIGNED WITH THE FUTURE IN MIND
The OEM7600 features configurable channels to optimize satellite availability in any condition, no matter how challenging. It tracks current and upcoming GNSS constellations and satellite signals including GPS, GLONASS, Galileo, BeiDou, NavIC and QZSS. The OEM7600 is software upgradeable to track future signals as they become available.

FEATURES
- 555 channel all-constellation, multi-frequency positioning solution
- TerraStar correction services supported over multi-channel L-Band and IP connections
- Serial, USB, CAN and Ethernet connectivity with Web interface
- Advanced interference detection and mitigation features
- RTK, GLIDE and STEADYLINE® firmware options
- Simple to integrate, compact form factor with 20 g vibration performance rating
- SPAN GNSS+INS functionality

If you require more information about our receivers, visit novatel.com/oem7
**OEM7600**

**PERFORMANCE**

Channel Count 555 Channels

Signal Tracking

- GPS L1, C/A, L1C, L2C, L2P, L5
- GLONASS L1, C/A, L2 C/A, L2P, L3, L5
- Galileo E1, E5 AltBOC, E5a, E5b
- BeiDou B1I, B1C, B2I, B2a
- NavIC (IRNSS) L5
- SBAS L1, L5
- QZSS L1 C/A, L1C, L2C, L5
- L-Band up to 5 channels

**Horizontal Position Accuracy (RMS)**

- Single Point L1: 1.5 m
- Single Point L1/L2: 1.2 m
- SBAS: 60 cm
- DGPS: 40 cm
- TerraStar-L™: 40 cm
- TerraStar-C PRO™: 2.5 cm
- TerraStar-X™: 2 cm

**Signal Reacquisition**

- L1: <0.5 s (typical)
- L2: <1.0 s (typical)

**Time Accuracy** 20 ns RMS

**Velocity Accuracy** <0.03 m/s RMS

**Velocity Limit** 515 m/s

**POWER AND ELECTRICAL**

- Dimensions: 35 x 55 x 13 mm
- Weight: 31 g

**Power**

- Input voltage: +3.3 VDC ±5%

**Power Consumption**

- GPS L1: 0.9 W (typical)
- GPS/GLONASS L1/L2: 1.3 W (typical)
- All frequencies/All constellations with L-Band: 1.8 W (typical)

**Antenna Port Power Output**

- Output voltage: 3.3 VDC ±5%
- Maximum current: 100 mA

**Acceleration**

- Operating: MIL-STD 810G (CH1), Method 513.7 (16 g)

**COMPLIANCE**

- FCC, ISED, CE and Global Type Approvals

**FEATURES**

- Field upgradeable software
- Differential GNSS positioning
- Differential correction support for RTCM 2.1, 2.3, 3.0, 3.1, 3.2, 3.3, 3.4, CMR, CMR+, RTCA and NOVATELX
- Navigation output support for NMEA 0183 and detailed NovAtel ASCII and binary logs
- Receiver Autonomous Integrity Monitoring (RAIM)
- GLIDE and STEADYLINE smoothing algorithms
- Interference Toolkit
- Web GUI
- Outputs to drive external LEDs
- 4 Event inputs
- 4 Event outputs
- Pulse Per Second (PPS) output

**ENVIRONMENTAL**

- Temperature
  - Operating: -40°C to +85°C
  - Storage: -55°C to +95°C
- Humidity: 95% non-condensing
- Vibration
  - Random: MIL-STD 810G (CH1), Method 514.7 (Cat 24, 20 g RMS)
  - Sinusoidal: IEC 60068-2-6
- Bump
  - ISO 9022-31-06 (25 g)
- Shock
  - Operating: MIL-STD-810G (CH1), Method 516.7 (40 g)
  - Non-operating: MIL-STD-810G (CH1), Method 516.7 (75 g)

**FIRMWARE SOLUTIONS**

- ALIGN
- SPAN
- RTK
- RTK ASSIST™
- TerraStar PPP
- API

**OPTIMAL ACCESSORIES**

- VEXXIS® GNSS-500 and GNSS-800 series antennas
- Compact GNSS antennas
- OEM7 Development Kit

For the most recent details of this product: novatel.com/oem7

novatel.com

sales@novatel.com

1-800-NOVATEL (U.S. and Canada) or 403-295-4900

China 0086-21-68882300

Europe 44-1993-848-736

SE Asia and Australia 61-400-883-601

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