Enclosures  PwrPak7D-E1™

COMPACT DUAL ANTENNA ENCLOSURE DELIVERS NOVATEL’S LEADING SPAN® GNSS+INS TECHNOLOGY

**DUAL ANTENNA INPUT**
Multi-frequency, dual antenna input allows the PwrPak7D-E1 to harness the power of NovAtel CORRECT® with RTK and ALIGN functionality. This makes the PwrPak7D-E1 ideal for ground, marine or aircraft based systems, providing industry leading GNSS multi-constellation heading and position data in static and dynamic environments.

**SPAN: WORLD LEADING GNSS+INS TECHNOLOGY**
Synchronous Position, Attitude and Navigation (SPAN) technology brings together two different but complementary technologies: Global Navigation Satellite System (GNSS) positioning and inertial navigation. The absolute accuracy of GNSS positioning and the stability of Inertial Measurement Unit (IMU) gyro and accelerometer measurements are tightly coupled to provide an exceptional 3D navigation solution that is stable and continuously available, even through periods when satellite signals are blocked.

**SPAN ENABLED MEMS RECEIVER**
The PwrPak7D-E1 contains an Epson G320N MEMS IMU to deliver world class NovAtel® SPAN technology in an integrated, single box solution. This product is commercially exportable and provides an excellent price/performance/size GNSS+INS solution.

**FUTURE PROOFED SCALABILITY**
Capable of tracking all present and upcoming GNSS constellations and satellite signals, the PwrPak7D-E1 is a robust, high precision receiver that is software upgradeable in the field to provide the custom performance required for your application demands.
The PwrPak7D-E1 has a powerful OEM7® GNSS engine, integrated MEMS IMU, built in Wi-Fi, on board NTRIP client and server support, and 16 GB of internal storage.

**PRECISE THINKING MAKES IT POSSIBLE**
Our GNSS products have set the standard in quality and performance for over 20 years. State-of-the-art, lean manufacturing facilities in our North American headquarters produce the industry’s most extensive line of OEM receivers, antennas and subsystems.

**FEATURES**
+ SPAN enabled enclosure featuring NovAtel’s tightly coupled GNSS+INS engine
+ Enhanced connection options including serial, USB, CAN and Ethernet
+ 555 channel, all-constellation, multi-frequency positioning solution
+ TerraStar® correction services supported over multi-channel L-Band and IP connections
+ Multiple communication interfaces for easy integration and installation
+ Built-in Wi-Fi support
+ 16 GB of internal storage
+ ALIGN® heading solution

If you require more information about our enclosures, visit www.novatel.com/products/span-gnss-inertial-systems/span-combined-systems/
PERFORMANCE DURING GNSS OUTAGES

<table>
<thead>
<tr>
<th>Outage Duration</th>
<th>Positioning Mode</th>
<th>Position Accuracy (M)</th>
<th>Velocity Accuracy (M/S)</th>
<th>Attitude Accuracy (DEGREES)</th>
<th>Remarks</th>
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1. Typical values. Performance specifications subject to GNSS system characteristics, Signal-in-Space (SIS) operational degradation, ionospheric and tropospheric conditions, satellite geometry, baseline length, multipath effects and the presence of intentional or unintentional interference sources.
3. Ready for L1 and L5.
4. E1b support only.
5. L-Band and SBAS reception on primary antenna only.
6. Requires a subscription to a TerraStar data service. Subscriptions available from NovAtel.
7. No almanac or ephemerides and no approximate position or time.
8. Time accuracy does not include biases due to RF or antenna delay.
9. Export licensing restricts operation to a maximum of 515 m/s.
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15. Time accuracy does not include biases due to RF or antenna delay.

Typical value. Performance specifications subject to GNSS system characteristics, Signal-in-Space (SIS) operational degradation, ionospheric and tropospheric conditions, satellite geometry, baseline length, multipath effects and the presence of intentional or unintentional interference sources.
3. Hardware ready for L3 and L5.
4. E1b support only.
5. L-Band and SBAS reception on primary antenna only.
6. Requires a subscription to a TerraStar data service. Subscriptions available from NovAtel.
7. Typical value. No almanac or ephemerides and no approximate position or time.
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For the most recent details of this product: novatel.com/products/span-gns-inertial-systems/span-combined-systems/pwrpak7d-e1/