SPAN CPT7
Compact Dual Antenna Enclosure With SPAN GNSS+INS Technology Delivers 3D Position, Velocity and Attitude

World-Leading GNSS+INS Technology
SPAN GNSS+INS 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 deeply coupled to provide an exceptional 3D navigation solution that is stable and continuously available, even through periods when satellite signals are blocked.

SPAN CPT7 Overview
The SPAN CPT7 is a compact, single enclosure GNSS+INS receiver, powered by world class OEM7 technology by Hexagon | NovAtel. Capable of delivering up to centimeter-level accuracy, customers can choose from a variety of positioning modes to ensure they have the optimal level of accuracy for their application.

The SPAN CPT7 contains a high performing and highly reliable Honeywell HG4930 Micro Electromechanical System (MEMS) IMU to deliver leading-edge SPAN technology by NovAtel in an integrated, single enclosure solution. It provides tactical grade performance for unmanned vehicles, mobile mapping and other commercial and/or military guidance applications. The SPAN CPT7 is a small, lightweight and low-power solution with multiple communication interfaces for easy integration on multiple platforms.

SPAN CPT7 Advantages
The deep coupling of the GNSS and IMU measurements delivers the most satellite observations and the most accurate, continuous solution possible. Further, SPAN CPT7 is comprised entirely of commercial components, simplifying export restrictions involved with traditional GNSS+INS systems.

Improve SPAN CPT7 Accuracy
SPAN CPT7 provides your choice of accuracy and performance, from decimeter to RTK-level positioning. For more demanding applications, Inertial Explorer post-processing software can be used to post-process the real-time SPAN GNSS+INS solution to provide the system's highest level of accuracy.

Benefits
• High performance SPAN GNSS+INS solution
• Small, low-power, all-in-one GNSS+INS enclosure
• Easy integration into space and weight constrained applications
• Commercially exportable system
• Rugged design ideal for challenging environments
• Enhanced connection options including serial, USB, CAN and Ethernet
• Future-proof for upcoming GNSS signal support

Features
• MEMS Gyros and Accelerometers
• Small size, rugged and lightweight
• TerraStar correction services supported over multi-channel L-Band and IP connections
• Advanced interference mitigation features
• SPAN GNSS+INS capability with configurable application profiles
• Dual antenna ALIGN heading
Contact Hexagon | NovAtel

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

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