SKYLINE MARK V 150
HIGH ACCURACY AIR NAVIGATION SYSTEM
SKYLINE MARK V 150
Inertial Navigation System

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The Skyline Mark V 150 is a GPS-embedded inertial navigation system, capable of combining external sensor data (GPS, odometer, magnetic compass, etc.) with a closed-loop FOG based IMU via a sophisticated Kalman Filter. Mark V 150 is available either in a standard format or tailor-made to customer requirements.

FEATURES
• Open architecture, flexibility to integrate with customer sensors
• Airborne, ground and marine versions
• Closed-loop FOG based IMU inside
• Interfaces to external sensors (odometer, magnetic compass, baro altitude)
• Internal GPS receiver or interface to external GPS

PARAMETER | UNITS
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**OUTPUT** | **HYBRID MODE RMS VALUES** | **AHRS MODE RMS VALUES** *
| STANDARD | XP | 
Current position (GPS dependent) | 5 m | 5 m | NA |
Altitude (GPS dependent) | 10 m | 10 m | NA |
Horizontal Velocities | 0.1 m/s | 0.1 m/s | NA |
Vertical Velocity | 0.15 m/s | 0.15 m/s | NA |
Altitude (pitch, roll) | 0.85 mR | 0.6 mR | 4 mR |
True heading (Motion profile dependent) | 2.5 mR | 1.3 mR | 8 mR ** |

DATA INTERFACES
RS422
Ethernet
Optional MIL STD 1553B
Optional high rate gyro data

OPERATIONAL MODES
Alignment (Gyro Compassing, Stored Heading, IFA)
GPS aided navigation
Odometer aided navigation (Land applications)
Attitude and Heading Reference System (AHRS) mode

PHYSICAL
Weight | 6 Kg.
Envelope | 165 x 170 x 255 mm
Power | 28 VDC, 35 W

* Assuming GPS loss after achieving full INS/GPS performance
** Provided magnetometer aiding. Magnetometer accuracy dependent.

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