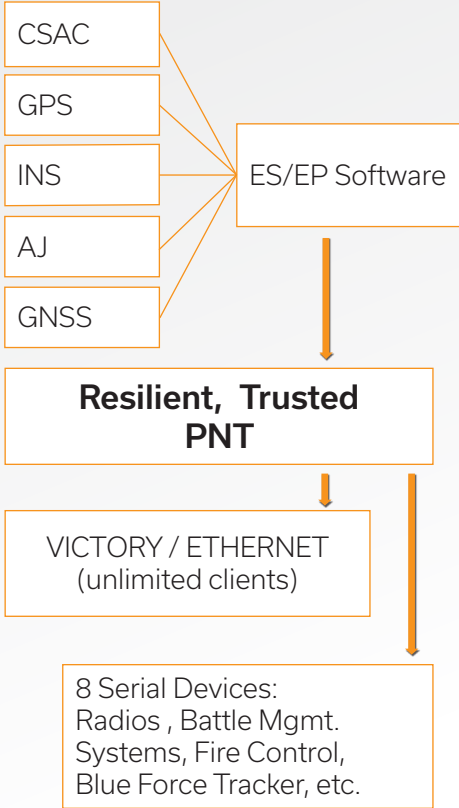


SENTRYSCOUT

Resilient Positioning, Navigation & Timing System



SENTRYSCOUT

The SENTRYSCOUT Resilient Position, Navigation & Timing System provides trusted and reliable Positioning, Navigation and Timing data, independent of the availability or integrity of GPS signals.

SENTRYSCOUT brings Assured PNT to the forefront by validating GPS signals. It creates and disseminates IS-GPS-153 messages when GPS is denied or unreliable, conveying data via Ethernet and serial clients. SENTRYSCOUT continuously distributes valid PNT data to all vehicle clients using Ethernet (VICTORY) and serial protocols.

ED3 - Enhanced D3



ED3

ED3 is a COTS product providing SAASM or M-Code protected GPS data that is depot level upgradeable from SAASM to M-Code. ED3 with VCAM installed retains 100% compatibility with all standard DAGR mount accessories and occupies the same space claim as the DAGR.

(J1) Key fill/COM3 port (replicates DAGR J1)

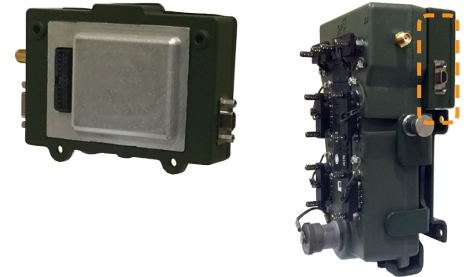
(J2) Configuration Utility/Diagnostics Port

(J2 - X) Each of the 4 ports independently replicate DAGR J2 (supports up to 8 individual clients). Each port distributes independent IS-GPS-153 and MSID messages via COM1 (RS232) and COM2 (configurable RS232 or RS422); PPS (1PPS UTC, 10PPS UTC & T-Mark); HAVEQUICK. Supports clients such as Tactical radios, FBCB2/BFT, Laptop/Falconview, MRT's, etc.

(J3) AJ or FRPA Antenna - Enhanced compatibility with AJ antennas operating in any mode;

(J4) 28VDC Switched Vehicle Power (Required); 28VDC Auxiliary Backup Power (Optional)

VCAM



VICTORY CSAC Accessory Module

1. Internal CSAC for resilient time capability, provides precise time to within 100 ns of UTC when GPS available, and within 1 μ s of UTC for up to 8 hours in a GPS denied environment;

Elec. Surveillance / Elec. Protection capability with Talen-X, Inc. Broadshield™ ES/EP application for detection of threats and validation of GPS signals;

2. Designed to operate with FRPA Antenna that feeds signal data to dual GNSS receivers, confirming integrity and validity of military GPS signals;

3. Supports Integration of INS (Inertial Navigation System) to generate position data, currently supporting KVH's TACNAV 3D which features high performance navigation filters and sensor inputs from CAN2.0b bus and from KVH's high performance Fiber Optic Gyroscope (FOG) inertial measurement units (IMUs).

4. Ethernet interface to host platform*
 - VICTORY Compliant 10/100/1000 Base-T per IEEE 802.3
 - VICTORY Generic End Node -- multiple services provided
 - Network Time Protocol (NTP, Standard: IETF RFC 1035), Time server capable
 - Precision Time Protocol Version 2 with hardware support (PTPv2, Standard IEEE 1588-2008), Grand master capable
 - IP V4 and IP V6 addressing supported
 - TCP/IP and UDP supported

*Future Software Upgrades (Q4 2018)



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 NAICS: 334220, 334290, 334511, 541330, 541690

2124-MS-SENTRYSCOUT-02