



## INERTIAL NAVIGATION SYSTEM (INS) - ICD GPS-059

Using the Ballard PCIe 1553 Dual Channel expansion board, Tapestry outputs properly formatted INS data formatted as described by ICD-GPS-059.

ICD-GPS-059 Setup and Configuration

Assign to PCI X-Card

**Message Output Rate**: 5 Hz      **Navigation Data Quality**: 0 NMPH      **Magnetic to True North Variation**: 12.20 °      **Mean Sea Level to Ellipsoid Altitude Offset**: 36.40 Ft

Apply Error Model

**Time Scale Factor (GRAM Cnfg Word 0 Bit 3)**: 50 microseconds

**MESSAGE OUTPUT SELECTION**

<input type="checkbox"/> Output I-1 [ USAF Standard INS State Vector ]	0	Output Delay (seconds)
<input type="checkbox"/> Output I-2 [ USAF CADC Aiding Data ]	0	Output Delay (seconds)
<input type="checkbox"/> Output I-6 [ USAF Standard INS State Vector ]	0	Status Word
<input type="checkbox"/> Output I-11 [ USAF CADC Aiding Data ]	0	Mode Word
<input type="checkbox"/> Output I-15 [ USAF Alternative Navigation Sensor Data ]	0	Status Word
<input type="checkbox"/> Output I-8 [ NAVY Standard INS Output ]	0	Mode Word
<input type="checkbox"/> Output I-9 [ NAVY INS Correction Message ]	0	Mode Word
<b>I-9 Message Output Rate</b>		
Once (Use @Time)	0	Seconds into Simulation
<input type="checkbox"/> Output I-10 [ NAVY Auxiliary Navigation Sensor Output ]	0	Mode Word
<input type="checkbox"/> Output I-12 [ NAVY AN/ASN-130A/139 INS Output ]	0	I-12 Status Word
	0	I-12 ASN-130 Align Mode Word
	1/4	I-12 Alignment Quality (NMPH)
	0	I-12 Alignment Time (seconds)
<input type="checkbox"/> Output I-27 [ FNU 85-1 INS State Vector ]	0	Status Word

**CANCEL** **APPLY**