ENSCO Avionics

Integration Test and Certification Solutions

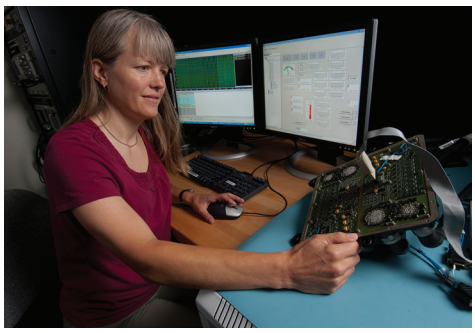
Turnkey Integration Test Solutions for Aerospace and Defense Programs

ENSCO is a recognized leader in the development and certification of safety-critical systems providing customers full turnkey integration test, verification and certification solutions built around its Universal Test Environment (UTE).

ENSCO's UTE is a scalable, highly configurable test solution built on a common HW/SW core with ENSCO's proprietary interface panels and smart adapter technology. ENSCO can offer a range of configurations tailorable to support a variety of avionics and mission-critical systems. The automated test environment offers our customers significant benefits in cost, technical risk and schedule across their development, regression and certification testing efforts. Additionally, it offers an expandable test environment that could be used for system profiling, fault testing, design and performance analysis, system characterization, acceptance, and qualification testing.

ENSCO's UTE is designed to support multiple levels of the system development life cycle and offers long-term ROI for future product upgrades, modifications and variants.

With more than 30 years of verification and validation experience, let ENSCO be a strategic asset to increase profitability, improve product quality, minimize project impacts, and maximize your ROI.



Benefits

- Reduce program costs for DO-178C, DO-254, and mission-critical test requirements
- Mitigate risk through rapid test equipment deployment, reuse, and common processes
- Reduce regression test costs through full automation
- Full modeling capability for early development of test cases and procedures
- Leverage ENSCO's extensive formal verification and test equipment design experience

ENSCO's secure facilities and labs are used to design, integrate and house test equipment that support simulation, modeling, open-loop, closed-loop, SIL, HIL and system testing. ENSCO Avionics is AS9100D and ISO 9001:2008 registered.

Certified System™

ISO 9001

Configurations and Specifications

Configuration Options	UTE Small-Scale Stand	UTE Mid-Scale Stand	UTE Large-Scale Stand
Ideal for...	Single Card Systems Small Control Devices Cabin System Devices Sensor Interface Systems	Multi-Card LRU Systems Engine and Flight Subsystems Control Distribution Systems Data Acquisition Systems	Multi-Unit Systems Engine ad Flight Subsystems Complex Avionics Large Scale Data
Size	16U 22.56”x31.56”x36.50”	35U 22.56”x31.56”x68.38”	70U 45.12”x31.56”x68.38”
Power	110Vac Single Phase	208Vac 3 phase	208Vac 3 phase
Network	Stand alone, Ethernet, Wireless	Stand alone, Ethernet, Wireless	Stand alone, Ethernet, Wireless
Stand I/O			
DC Power Supply	(2) 0-40VDC, 15A, Programmable	(2) 0-40VDC, 15A, Programmable	(4) 0-40VDC, 15A, Programmable
		(1) 3.3Vdc 50W	(1) 3.3Vdc 50W
		(1) 5.0Vdc 50W	(1) 5.0Vdc 50W
		(1) 15Vdc 50W	(1) 15Vdc 50W
		(1) -15Vdc 50W	(1) -15Vdc 50W
AC Power Supply			(1) 1/3 Phase AC supply 2.25kv, Programmable
Relay Outputs	40 Channel SPDT	40 Channel SPDT	80 Channel SPDT
Digital I/O	34 Digital I/O, Counter, timer	34 Digital I/O, Counter, timer	68 Digital I/O, Counter, timer
Analog Inputs		(32) 16 bit 2Ms/s	(64) 16 bit 2Ms/s
Analog Data Acquisition	(8) 16 bit 1.25Ms/s	(8) 16 bit 1.25Ms/s	(16) 16 bit 1.25Ms/s
Analog Outputs	(34) 1Ms/s Analog Output	(38) 1Ms/s Analog Output	(76) 1Ms/s Analog Output
Waveform Generation	Low Resolution via AO	(4) 20mhz, True WF, Pulse, Prog	(8) 20mhz, True WF, Pulse, Prog
Programmable Resister		(18) 1-255ohm, 1 ohm step, 0.5%	(18) 1-255ohm, 1 ohm step, 0.5%
Thermocouple SIM *		(32) 1Uv, 0 degree junction	(32) 1Uv, 0 degree junction
Oscilloscope	(4) Analog, 200Mhz	(4) Analog, 200Mhz	(4) Analog, 200Mhz
	(16) Logic Analyzer	(16) Logic Analyzer	(16) Logic Analyzer
	16Gs/s Sampling Rate	16Gs/s Sampling Rate	16Gs/s Sampling Rate
		CAN Trigger Module	CAN Trigger Module
		SPI, I2C Trigger Module	SPI, I2C Trigger Module
MUX and DMM		6.5 Digit DMM, V, R, F, T	6.5 Digit DMM, V, R, F, T
		(40) Mux Channels	(40) Mux Channels
		(8) RF Mux Channels	(8) RF Mux Channels
Communications - Serial	(8) ports RS422, RS485	(8) ports RS422, RS485	(8) ports RS422, RS485
Communications CAN		(2) HS/LS CAN, Prog	(2) HS/LS CAN, Prog
Communications Avionic			(32) ARINC429 or (4) Mil-STD-1553
Stand I/O Control	RS232, GPIB, USB2.0, USB3.0	RS232, GPIB, USB2.0, USB3.0	RS232, GPIB, USB2.0, USB3.0

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