



ATS-100

Automatic Test System

High Performance
Flexibility in Testing
Modular Architecture

ATS-100 is a next-generation automatic test platform designed for the validation of boards, subsystems, and electronic units.



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The ATS-100 is built on a specialized 40U double-bay industrial cabinet architecture with a PXI modular instrument backbone, delivering a robust and scalable platform for executing end-to-end functional and diagnostic test coverage across LRU and SRU level hardware.

The system integrates the VPC 9025TR Mass Interconnect interface, enabling fast, secure, and reliable connection of test adapters and supporting analog, discrete I/O, and serial signal simulation and measurement capabilities.

Technical Specifications

DC Supply	0-80 V / 0-42 A, 3360 W - 2 ch. 0-35 V / 8.5 A, 300 W - 8 ch.
Electronic Load	0-150 V / 0-300 A, 3000 W - 2 ch. 0-60 V / 0-60 A, 300 W - 6 ch.
Oscilloscope	500 MHz, 5 GSa/s - 4 analog & 16 digital ch.
Function Generator	150 MHz, 2 GSa/s, 14-bit - 2 ch.
Analog Signal Generator	±20 V, 500 mA, 14-bit - 8 ch. ±10 V, ±20 mA, 16-bit - 32 ch.
High-Speed Digital I/O	200 MHz - 32 ch.
Isolated Digital I/O	32 input / 32 output
Switch / Measure Unit	Relay & matrix switching - two 4x32 matrices
High-Current Relay	300 VDC / 16 A SPST - 16 ch.
RF Mux	500 MHz - dual 8x1
Serial	RS-422/485 × 4 (50 Mbps) RS-422/485/232 × 32
Protocol Adapters	Ethernet, USB 3.0, I2C/SPI, 1-Wire
Video	CameraLink Simulator & Frame Grabber

Specifications are subject to change without any notice. | All tolerances are within ±10%.



Application Areas

- Avionics & Defense Systems
- Serial Production Line (Pass/Fail)
- Card-Level Fault Detection & Repair
- Embedded Electronics Testing

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