

PRODUCTION



Fast and reliable device programming solutions specifically addressed to requirements of engineering and manufacturing customers. In-line, off-line, in-system manual and automated from lab to production.



Fully automatic or semi-automatic PCBA in-line and standalone routers, odd form component pick and place, flex-circuit depanelizing machines. Fast, cost-effective, due to the last innovation in motion control, they provide gentle and accurate board extraction. Low cost high speed inline label placer.



Advanced soldering technology for automation and hand operated: selective & desktop soldering robot, automated units, hand-operated soldering stations, nitrogen gas generators, solder bath, solder fume extractor.

BOARD & SYSTEMS TESTER



Flying Probe testers and In-circuit tester highly advanced, scalable solutions. The Flying Scorpion FLS980Dxi "The Ultimate Probing Machine" is a full function Double Sided System configurable with up-to 22 closed loop Flying Probes with ±0.1 micron resolution, programmable probe angle +6° to -6° degrees, extensive electrical test capabilities including analog (up-to GHz range), digital, mixed signal and Boundary Scan as well as advanced optical and thermal inspection. Reverse engineering. Support for largest boards up-to 1050 x 640 mm.



ATS for Battery, High capacitance Capacitors, Solar cells, Inverters, Battery chargers, LED and LED power supplies, Transformers.



Board DFT & Test Coverage Analyser, Test coverage Estimation. Test coverage Measurement. Quality & Electronic Assembly Repair Management System.



ATE systems for testing, troubleshooting and repair of PCBs, intended for the defense, transport and in general, support and maintenance of electronic equipment for Mission Critical applications. Obsolescence management of electronic cards and duplication of obsolete electronic cards, where it is necessary to extend the lifetime of the equipments in operation.



Tools for in-system programming of Flash and programmable logics; board and systems tests (std IEEE-1149.1 and laterst) with integration with all major ATE manufactures; system debug, PCB prototype verification, production and annual maintenance. "At speed test" via FPGA µP.



AOI ATE solutions for SMT, DIP, LED, Touch Panel. First Article Inspection (FAI) AOI plus automatic probing RC measurements up to 01005 (Imperial).



Fastest ICT functional platforms provide electronics manufacturers with reliable high-quality, high-volume testing for the latest printed circuit board assembly (PCBA) technologies used in automotive, industrial, computing, consumer, communications, and defense end-products. The structural and functional test cover manufacturing, component, process, and performance defects for high-performance analog, digital, and mixed-signal devices. The best for High-Reliability, High-Complexity products. TestStation Duo, Multi-Site, High Pin Count (up to 15,360 pins), Inline or Offline.

TOOLS



Test & measurement equipments, PSU DC, Soldering stations, Rework stations.



Cutters 63-65 HRC Mini, Subminiature, Taper, Tip, Tip stand off, Hard wire Cutters class W tungsten alloy steel (66-68 HRC) or class T solid tungsten carbide brazed (79-81 HRC). Custom models. Precision Pliers.

DAQ



High speed-high performance data acquisition systems with independent amplifiers and digitizers for every channel. Availability of a wide range of HW platforms and mainframe configurations to handle both portable and fixed data acquisition requirements. Ethernet communication to an internal or external PC. Extensive analysis and report generation. Innovative compact solution for automotive, aerospace, power and industrial markets.



Dedicated high accuracy, time synchronized data acquisition systems for strain gauges, thermocouples, thermo resistances, voltages, currents.



Isolation amplifiers, Transmitters, Modules, Indicators, Process Analytics, Laboratory Products and Portables, Sensors and Accessories



Complete Solutions for: Noise & Vibration Measurement, Analysis and Reporting; Continuous Data Acquisition, Signal Analysis and Process Monitoring



Sphere with 5 digital cameras, 64 microphones and related software for the capture and reproduction of an omnidirectional sound image, for detection and measurement of causes of noise or echo in cars, airplanes, helicopters, theaters, churches, conference rooms.

IT



DIndustrial PCs, panel PCs, fanless with patented hydraulic cooling system. Server, Workstation MIL/industrial single/multi slot. Shock and vibration resistant with corrosion protection, EMI/RF, guaranteed for use in extreme conditions. Custom models on request.



Human Interface Systems for rugged Military/Industrial applications, Flat Panel Displays, Keyboards, Trackballs, Keyboard/Trackball Combination Units, Control Display Units, Integrated Switch Panels, Display Bezels.

AC/DC POWER



Programmable auto ranging DC Power Supplies, Modular DC Power Supplies. Solar Array Simulators. Programmable AC and AC+DC Sources 1 and 3 phases. Regenerative Grid Simulators. Programmable DC and AC+DC Electronic Loads.



Linear and power amps AC in the ranges of audio and ultrasound (5 Hz to 800 kHz), for general use and special industry, military agencies, universities and research institutions.



Programmable power supplies AC/DC from 240 W to 1 MW, AC/AC+DC from 250 VA to 800 kVA, programmable loads DC and AC. Solar panel simulator systems and regenerative AC/DC converters.



Programmable DC power supplies starting from 100 W, linear, high-resolution, compact, with VFD display, keyboard, soft touch, SW calibration. DC loads mono & multi-channel, programmable from 150 W. Accuracy and resolution, operating modes CC, CV, CR, CW; configuration in series or parallel.



DC/DC 500W - 100KW converters, DC/AC inverters, AC/AC power supplies, DC programmable loads, frequency modifier AC/AC, "ruggedized" UPS. Redundant/fault tolerant modular power solutions, hot bus pluggable.



DC/DC converters: modular power components and complete power systems for communications, data processing, industrial controls, test equipment, medical and defense electronic markets. Widest available range from a single manufacture: more than 600 standard products, modified standard or custom design available.

METROLOGY



Specialized laboratory instruments, benches and clean rooms calibration, laboratory management, support & repair center, technical services. On and off-site service, pick-up & delivery.



Resistance standards, Current Shunts, Precise Decade Standards Programmable Fluid and Air Bath, Digital Teraohmeter, Resistance/Thermometry Bridges.



Rubidium frequency standard references, ultra low-noise signal analyzers, frequency and phase analyzers, programmable attenuators, RF and Microwaves.



Multifunction, multiproduct calibrators, Electrical test equipment calibrator, High accuracy digital multimeters, AC/DC shunts, Decade resistances, DC voltage standards, Frequency source/measurement GPS standard.



Solutions for temperature measurements and calibrations, precise benchtop thermometer readouts with accuracy in mK range, reference resistors, specialised equipment for metrology institutes, custom-made calibration software.

T&M INSTRUMENTATION



RF spectrum analyzers up to 9.4 GHz, PDAs, USB, outdoor and military antennas and EMC pre-compliance, near field probes, EMF shielding.



Hipot testers, Wound and transformer testers, Capacitance Meters, LCR Meters, DMM, High accuracy thermal/multifunction datalogger, SMM PXI modules.



Three-phase power analyzers and recorders 600 V, for recording, analysis and monitoring of parameters for Power Management predictive. Rugged, waterproof, comply to STD IP. Operation assured even in harsh environments.



High precision std-custom signal conditioning, processing & recognition solutions for DAQ, conversion & translation. Fixed frequency & programmable high/low/band-pass, band-reject filters. Amplifiers, sinewave oscillators.



Meters and measuring systems, instruments for testing of electrical medical equipments, calibrators, energy analyzers, testing regulations DIN VDE 0701/0702, high voltage insulation measurements.



Space, inertial, tactical or industrial grade accelerometers and thermal switches, Gyros, IMU (Inertial Measuring Unit)



Bench and VXI, Programmable Synchro/resolver standard and simulator, Synchro/Resolver angle position indicator, Precision phase meter, Arinc or RS232 to Synchro converter.



T & M line includes digital oscilloscopes, mixed signal, with integrated generator, RF spectrum analyzers, function generators arbitrary, RF, multimeters, programmable power supplies, DAQ systems.

More details on: [www.shopalldata.com](http://www.shopalldata.com)



EMC pre-compliance test LISn instruments, EMC probe kit set, near field CISPR25, LISn, TEM Cells; LISn 240V, RF power amplifiers, ESD tools. Environmental sensors and DAQ systems.

More details on: [www.shopalldata.com](http://www.shopalldata.com)



Modular matrix, multiplexers, scanners, digital multimeters, A/D and D/A converters, high speed digitizers, arbitrary sources, digital I/O, time interval, communication, mainframes and special instruments in LXI, PXI e, PXI, VXI, VME.



VME/VPX Chassis, Backplanes and Health Monitoring Systems, power supplies for Military/Industrial Shipboard, Ground Mobile, Avionics and Severe Environment application.