



Technology Leaders in Automated Test Equipment for Electronics



Qmax not only designs, manufactures and supports state-of-the-art ATE, but provides application support and repair services too.

AUTOMATED TESTING EQUIPMENT FOR ELECTRONIC SYSTEMS.

Qmax designs, develops, manufactures, sells and maintains a wide range of automated test and diagnostic equipment for electronic systems. Ranging from the simplest to the most complex. And from the system level right down to the component level.

Founded in 1992, Qmax is a global player in the field today. With a worldwide presence, the Company's solutions help users of high-tech electronics across different verticals in the testing, repair and maintenance of their systems.

The robustness of Qmax's solutions make them particularly useful in critical applications such as defence, aerospace, power generation & distribution, oil & gas, transportation, bio-medical and factory automation, where reliability of equipment and repeatability of processes are paramount. Qmax offers leading-edge technology solutions for the above segments in Semi-Con Test, Electronic Board Test and Harness Test applications.

Qmax also offers Electronic Repair Services (ERS) of the highest order. Besides manufacture and repair, Qmax also conducts certification courses on electronics test engineering that help in skill development among the student population as well as employees in corporates.

TECHNOLOGY. INNOVATION. TRUST. AND A THIRST FOR EXCELLENCE.

Qmax is known for its technological innovation and is trusted for the quality and reliability of its products. That's because Qmax practises a simple philosophy that underlies all the high-tech processes: a single-minded focus on Excellence in every sphere of activity.

This is what has brought Qmax to where it is now. And it is that continuing commitment to excellence in quality, competitiveness and customer satisfaction that has propelled the Company towards global leadership. Some examples of Qmax's leadership include the world's best In-Circuit Testers accompanied by an ever-increasing database of device models and the fastest open-short testers.

AN ENDURING VISION.

Qmax's vision is to achieve the most reliable and affordable test and diagnostic solutions in high-end electronic systems through continuous research and development processes for constantly evolving test techniques and technologies and to keep an ear to the ground to keep abreast with test challenges in the field and new technologies.

Qmax will focus on constantly developing new test techniques to identify faults in highly complex circuits. It will continue to develop and sell newer technology test equipment, which will help make the maintenance of complex circuit boards easy and affordable.

- Highly qualified workforce
- Offices in major cities in India for easy support access
- Subsidiaries in USA & Singapore
- AS9100D & ISO 9001:2015 certified
- Authorised vendor to several Defence establishments & PSUs
- Distributors in over 25 countries
- Users in over 50 countries



Robust
Combination Board Tester



RESEARCH & DEVELOPMENT - THE KEY.

Research and Development is at the core of operations at Qmax. It is our R&D that has contributed significantly towards giving Qmax products the leading edge in technology.

R&D at Qmax is tasked with a constant search to implement innovative test solutions to meet the dynamics of the industry and the ever-changing testing needs of challenging high-density PCBs.

Qmax gives priority to fast-changing technology and keeps ahead of the game to provide futuristic solutions for tomorrow's challenges.

Similarly, Qmax is also committed to regular updates of its software, device library, and consequent training and technical support to its customers, all of which are integral parts of the roles of our product development teams.

One such innovation from Qmax is the integrated boundary scan test which combines boundary scan test technique (IEEE 1149.1) with Qmax's test processor engine, in digital and analog I/O simultaneously, to achieve higher test coverage.

Feathers in the Qmax R&D cap

- Over 20 innovative products
- International patents for Bus Cycle Signature Test
- Innovative multi-application user-friendly automated software test platform - the TESTDIRECTOR (TD)
- Contributing Member in DOD, USA's automatic test mark-up language program

STATE-OF-THE-ART FACILITIES

A modern facility at the IT hub of Chennai, India, houses Qmax's operations, including hardware design, software development, product application development and manufacturing.

The facility boasts of world-class R&D and manufacturing with state-of-the-art BGA/SMD rework systems, automatic optical inspection system, wave soldering, SMD reflow and fully automatic SMD pick and place machines. Latest additions to our production line include RoHS equipment that ensure lead-free environmentally friendly manufacturing processes and end-products.

The facility employs highly qualified talent that drives Qmax's success.

Sales and service facilities in major cities across the globe help Qmax get closer to customers.

The environment at Qmax, which encourages initiative, innovation and creativity, and helps employees grow multi-fold, has been instrumental in helping the Company build and retain great talent with world-class competencies.



Qmax's catalog
of products
and solutions
offers a single
window for
any test lab or
facility
anywhere in
the world.

A WIDE PRODUCT RANGE.

Qmax produces its own wide range of products and represents other leaders in the field as well.

Qmax's product range includes:

- Automated Test Equipment
- Desktop ATE
- Semicon ATE
- Harness & Wiring Analysers
- Hand-held Testers
- Boundary Scan Testers
- Robotic Flying Probers
- Test Fixtures & Assemblies
- Tollway Logic System

Given this wide range, Qmax's customers don't ever need to shop elsewhere for any of their test equipment needs. Many of Qmax's products are CE-certified.



Tollway Logic System



Nodal Impedance Analyser



In-Circuit Functional Tester



In-Circuit Functional Tester
with built-in Instruments



Versatile Desk-Top ATE



Semi-Con Parametric Tester



Power Supply Tester



Robotic Flying Prober (Horizontal)

Our represented product range includes solutions from:

- Active Technologies, Italy – Pulse generators with high signal integrity and wide range of Arbitrary Waveform Generators with stand-alone as well as PC-Based options
- B-Best Inc, Japan – Battery characterisation / Battery deterioration detection equipment - Diagnostic device for storage batteries
- BK Precision, USA – General Purpose Test and Measurement Systems
- Den-on Instruments, Japan – BGA Rework Systems / SMD Rework Systems / Temperature-controlled De-soldering tools and Soldering Stations
- Exttech Instruments, USA – Hand-held Meters and general-purpose Lab Instruments
- JBC Tools, Spain – Tools for Soldering / Rework with variety of options / SMD rework / Fume extractors / Tip cleaners
- LCR Research Inc., USA – Pen-type LCR Meters
- Nordson Yestech, USA – In-line and Offline AOI Systems / Conformal Coating Inspection Systems
- Nuline, India – PCB Inspection Systems
- Pico Technology, UK – PC-based Digital Scopes / Data Loggers / Automotive test kits
- Vapormatt, UK – Conformal Coating Removal Systems
- Vision Engineering, UK – 3D Stereo Microscopes / PCB Inspection Systems
- Xeltek, USA – EPROM Programmers

Every partner has been chosen to ensure that we add to our range in a complementary manner, giving you a complete array of solutions for any need.



Cable Harness Tester



Next Generation Mixed Signal In-Circuit Functional Tester



Robotic Flying Prober (Vertical)



ProRack

SOFTWARE TO SUPPORT THE HARDWARE.

Qmax TestDirector is a powerful multitasking test software platform with GUI-rich and user-friendly features offering multiple modules such as Interactive Workstation, TestSequencer and TestStation enabling automated testing. In the interactive mode, users can perform multiple tasks such as In-circuit or Out-circuit Functional Tests using the vast library of devices; Device Data Sheet referencing at the click of a mouse; R-L-C-V-F measurements; or Signature Tests.

In the TestSequencer mode, users can combine various tests such as Open/Short or Measurements/QSM V-I, In-circuit functional tests/Boundary Scan tests, Card-Edge tests or call a PXI/GPIB instrument from a single board program. Program development is supported in graphical mode and other industry standard software like LabView or Edwin are supported/integrated for specific user applications.

The TestStation mode is offered for operator level usage with password protection and report generation options.



"BEST FIT CURVE" QSM V-I SIGNATURE

Qmax test systems incorporate an advanced algorithm, Automatic "Best Fit Curve", which can detect if any one of the components is missing or if the value is changed in a complex node.

Integrated Device Test Environment (IDTE) is a powerful software module that is available when the user wants to develop his own library using either the VHDL Models or the PythonTD Model or the Graphical Test Program Generation method.

Qmax CircuitTracer module is most useful when the user wants to learn the intralinks and interlinks between various devices/integrated circuits on the board under test and creates the net-list information which in turn can be exported to standard CAD software packages, which are supported by Qmax Test Director.



ELECTRONIC REPAIR SERVICES (ERS).

Qmax offers reliable repair services for strategic and defence electronics, as well as for reverse engineering, through a fully equipped facility housed next to the R&D centre and engineering facilities.

Qmax employs experienced professionals with a broad base of knowledge and expertise. The Company offers a full range of repair capabilities and has earned recognition as a world leader in component level repair and obsolescence management.

Besides being AS9100D & ISO 9001:2015 certified, Qmax also practises lean initiatives which are implemented in every facet of the Company's operations. All this translates into major efficiencies and cost savings even in repair services.

Thus Qmax ERS solutions play a vital role in ensuring greener environment by reducing e-waste.

Qmax's
electronic
repair services
offer an array
of service tools
under one
roof... so don't
throw your
board away
just yet!



TRAINING & SKILL DEVELOPMENT.

Qmax conducts training program to equip Professionals as well as electronics engineering students in the field of electronic components testing and functional testing and troubleshooting of boards.

These Training Courses are ideal for people who are in or wish to work in electronics in the fields of design, manufacturing, testing, quality assurance certification and maintenance support of various products in commercial, industrial and military/space applications.

The courses for Professionals are conducted at Qmax Head Quarters, Chennai, India for Basic and Advanced Levels. Qmax also conducts on-site training programs.

Budding engineering Students from Electronics field are also trained at Qmax with nominal fee structure which will help them to develop their testing and troubleshooting skills with high focus on hands on sessions.



CORPORATE SOCIAL RESPONSIBILITY.

Qmax takes its passion for innovation beyond its products and into its practices. As part of the continuing mission of the Company to leave the world better than we found it, Qmax-ians are partnering and taking a close look at every aspect of what we do, and are working towards a greener and more sustainable business in every aspect, right from our office supplies to our global supply chain.

WHERE TECHNOLOGY MEETS ENVIRONMENT.

At Qmax, leadership comes not just from cutting-edge technology that brings you automated test equipment at par with the best across the world.

Leadership also comes from responsibility. To the environment. To the earth. To the future. That's why all our processes are green, making equipment from Qmax the greenest.

CSR and eco-friendly operation are a part of the DNA of every Qmax-ian. We pride ourselves in being a green Company.



**CORPORATE
SOCIAL
RESPONSIBILITY**



Some of our valued customers



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