



EMBEDDED SYSTEMS
SOLUTIONS

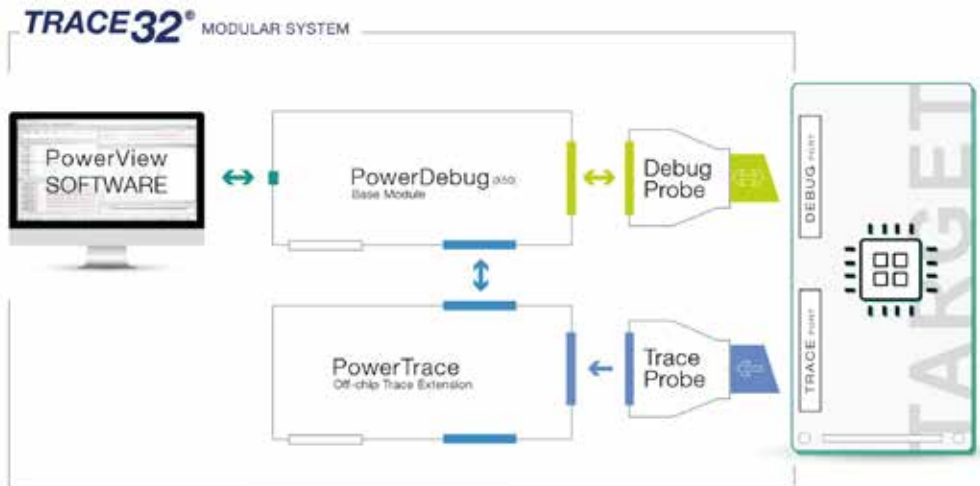
LEADING
ONE STOP
PROVIDER FOR
EMBEDDED
SYSTEMS

ESS PRODUCT PORTFOLIO FOR INDUSTRIAL AUTOMATION SOLUTIONS





Universal Debugger



Product Portfolio

Debugger

PowerDebug System
µTrace® All-In-One Solution

Debug Features

Multi-Core Debugging
OS Awareness
Hypervisor Awareness
Flash Programming (Memory-Mapped)
FLASH Programming (Protocol-Based)
AUTOSAR Debugging

Trace Extensions

PowerTrace System
CombiProbe Compact Trace

Trace Features

Code Coverage
AUTOSAR Profiling
Energy Profiling

Software Solutions

PowerView Software
Instruction Set Simulator
Debugging over USB
Debugging via XCP
Debugger for Simulators,
Emulators and Virtual Targets

Embedded development tools by SEGGER



Debug & Trace probes



J-Trace PRO Cortex-A/R/M

J-Trace PRO Cortex-M

J-Trace PRO RISC-V

J-Link PRO

J-Link ULTRA+

J-Link WiFi

J-Link PLUS



Software Tools



RTOS

File system

Compression

IP

Firmware updates

USB

Encryption

Authentication

User interface



Embedded Software



Production Tools



Flasher PRO

Flasher Compact



Flasher Portable PLUS

Flasher PRO XL



Flasher ARM

Flasher Secure



Flasher ATE

ESA PRODUCTION PROGRAMMERS

AEC LabTool Programming Solutions

Universal In-Socket Device Programmers

ESA IUP - 48 UXP



- < 2 seconds per Mbit Programming speed for high density flash chip
- Supports most of MCUs, up to 100 pins, in various packages including PLCC, SOIC, TSSOP, SOT23, TQFP, QFN & QFP...etc.

In System (Serial) Device Programmers

LabTool - S100



- PC based USB interface serial flash programmer
- High programming speed, it can program at 30Mbps

In-Socket Gang Device Programmers

Turbo Gang Programmer (LabTool-848XP)



- Program 8 pieces 8 MB Flash chips within 45 seconds
- Universal Adapter for Flash chips

Phyton Programming Solutions

Universal In-Socket Device Programmers

ChipProg - 481



- Device programmer with 48 pin socket
- Extremely fast! Programs and verifies programming of 1Gb NAND flash memory device for 23s
- Targeted at working with large density NAND & NOR flash memory devices

In-System Device Programmer (JTAG, SWD, SPI, SCI, I²C, UART)

ChipProg-ISP2 - CPI2-B1



- Single Chanel - Multiple CPI2-B1 programmers combined into a programming cluster controlled from a single computer
- Supports 40,000+ in system programmable microcontrollers, flash memory & programmable logical devices

Gang In-System Device Programmers (JTAG, SWD, SPI, SCI, I²C, UART)

ChipProg-ISP2 - CPI2-Gx



- Works in the standalone mode
- Multi-channel, Daisy chain up to 72 programming channels
- 51,786+ supported MCUs, PLDs and memory devices

Dediprogram Programming Solutions

Universal In-Socket Device Programmers

NuProgPlus-U16



- EEPROM, Flash, MCU, eMMC, and UFS devices programming
- PC can link to multiple NuProgPlus-U16 and program IC at the same time

In-System (Serial) Device Programmer

SF600Plus-G2U



- High-speed USB and high SPI performance
- Support IC Kinds: SPI NAND/SPI NOR
- Works in the standalone mode

Automated Programming Systems

DP2T



- High Throughput: Up to 1,000UPH (Unit per Hour) with only one nozzle
- Support Various IC Packaging: Sop, SSOP, TSSOP, PLCC, QFN, LQFP, BGA...etc.
- Support Different Input/Output Peripherals: Tape In/Out, Tray In/Out & Tube In

Make IC Programming PERFECT







Automated IC Programming System

- High Throughput
- Support ALL IC Device Families
- Fast and Accurate Positioning
- Foolproof Mechanism
- Modular Design to Meet Different Requirement
- DediProg Auto Teach Feature
- MES (Manufacturing Execution System)

High Efficiency Production Solutions for IC Programming

DediProg offers high-efficiency equipment for production solutions for IC programming of EEPROM, SPI Flash, NOR Flash, NAND FLASH, Microcontroller, eMMC, CPLD, UFS (Universal Flash Storage) and other programmable devices.

Automated IC Programming System

Entry Level	High Efficiency	Compact Universal	Premium Universal
DP2T	DP2000	DP1000-G3	DP3000-G3
			

Gang Programmer and Duplicator

Able to Use Independently or Integrate with Automated Systems

ProgMaster-U8	NuProgPlus-U8	NuProgPlus-U16
 All IC Types (Except for UFS)	 All IC Types (Include UFS, PCI-E and CAN bus IC)	 All IC Types (Include UFS, PCI-E and CAN bus IC)

Handheld Size Engineering Programming Solutions

SF100	SF600	SF600 Plus	SF700	K110	StarProg-A	StarProg-U	NuProg-E
							
SPI NOR Flash			SPI NOR, SPI NAND, & SPI Octal NOR	SPI NOR, SPI NAND & EEPROM	MCU, CPLD, SPI NOR Flash, SPI NAND Flash & EEPROM	All IC Types (Except for UFS)	All IC Types



DIAGNOSTIC TESTING MADE EASY

With XJTAG's powerful tools, using JTAG boundary scan - built into many ICs in today's electronic products

QUICKLY DETECT MANUFACTURING DEFECTS

Including open circuits, shorts circuits, missing and incorrectly fitted components, using XJTAG's easy to use software



XJTAG offers a complete solution for testing populated printed circuit boards (PCBs) using JTAG boundary scan, providing products and services for fault detection and fast in-system programming.

Fast Prototype Board Bring-Up & Debug

Benefit from manufacturing-level debugging and testing capabilities on your development bench. Deliver proven, high-quality circuit boards faster and more cost-effectively with XJTAG's integrated test development environment.



FAST TEST DEVELOPMENT

Test more of your prototype, sooner



TEST WITHOUT FIRMWARE

Start testing your hardware long before the software is ready



SUPERIOR TEST COVERAGE

Access more of your board with XJTAG Boundary Scan



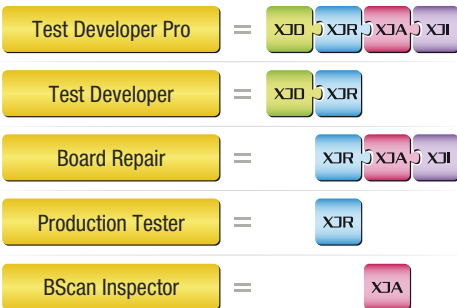
FAST BOARD DEBUG

Access the full capabilities of Boundary Scan

XJTAG works with the JTAG / IEEE 1149.X boundary scan test standard built into FPGAs, CPLDs and most CPUs.

Helps diagnose and quickly repair faults, even under BGAs and enables testing and programming of JTAG and non-JTAG devices in-circuit from the same environment.

Select your XJTAG software package



Standalone versions of XJRunner and/or XJAnalyser are also included with your integrated environment's license



Development Systems

Test Development & Graphical Board Debug



XJDeveloper - IDE

Test and Programming Development and Debug Environment



XJInvestigator - Repair Station

Manufacturing Repair/Rework Station



XJAnalyser - Real-time Debug

Prototype Board Bring-up & Real-time Graphical Board Debug



XJRunner - Production Test

Run-time Manufacturing Test & Programming Environment



neXt generation in data acquisition and signal conditioning

For analog, digital, optical and
MHz signals

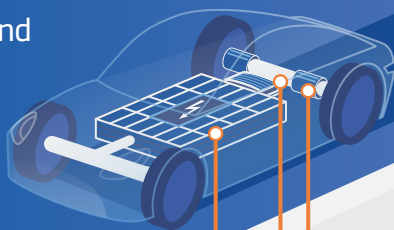
MHz

High isolation I/O
modules for electric
vehicle testing

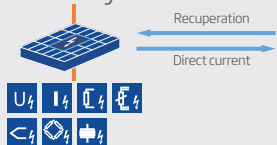


1200 VDC continuous isolation

**5000 VDC
peak**



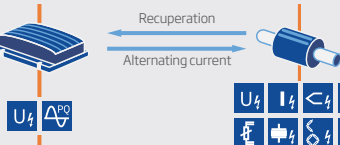
Battery



Q.series X

Continuous
1200 VDC isolation

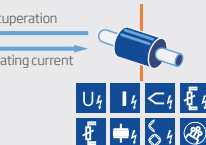
Inverter



Q.boost

Up to 4 MHz per
channel, triggered
or continuously

Motor



Q.series X

Up to 100 kHz
per channel



www.gantner-instruments.com

info@gantner-instruments.com | T +43 5556 77 463-0



Embedded modules & systems from TQ-Embedded

TQ is one of very few suppliers worldwide, offering solutions on all common processor architectures – from Arm®, QorIQ® Layerscape, Power Architecture® up to x86. TQ support does not only cover the module itself but also offers assistance for your individual application board.

Highlights

- ▶ Application kit (starterkit)
- ▶ BSP Support
- ▶ Schematic mainboard review
- ▶ Mainboard layout and production
- ▶ Customer specific mainboard design
- ▶ Complete system design, well-founded application design knowledge
- ▶ Own production ISO 13485, EN 9100 & ISO 16949 certified

Category

BoxPC
Carrierboard
Single Board Computer
Starterkit
Embedded Module

Form factor

COM-Express® Basic
COM Express® Compact
COM Express® Mini
SMARC
TQ Socket
TQ LGA

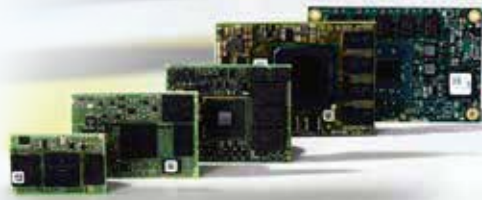
TQ-Systems as a hardware specialist for embedded systems is working in close partnership with all leading semiconductors and operating system vendors.



Technology
Provider
Platinum 2019



TEXAS
INSTRUMENTS



Energy | Smart Grid

Based on our know-how of power electronics and control technology, we are creating regulations for transformers to secure the network against sudden power surges, for example.



Industry | Automation

Our solutions are used for various industrial applications, e.g. as mechanical engineering, automation, measurement, control and regulation-, process-, and monitoring technology.



IoT

Intelligent objects, secure data communication, worldwide management as well as centralized and, to some extent, decentralized storage and data processing require reliable and secure systems on all levels.



Building automation

Our smart products in distributed building control point the way to added efficiency in building automation. This renders complex building automation tasks easy to handle.



Telecommunication

In telecommunications fast and efficient networking is crucial. Large quantities of data must be processed in a short time. Our solutions additionally imply long-term availability, industrial capability and use in an expanded temperature range.



**EMBEDDED SYSTEMS
SOLUTIONS**

DEVELOPERS KITS	COM BOARDS	OEM BOARDS
DISPLAY MODULES	M.2 MODULES	LPCXPRESSO BOARDS

MICROPROCESSOR BOARDS



IMX RT1176 UCOM

Dual-core Cortex-M7/M4
@ 1000/400 MHz



IMX RT1166 UCOM

Dual-core Cortex-M7/M4
@ up to 600/240 MHz



IMX RT1064 UCOM

High-performing
Cortex-M7, up to 600 MHz



LPC4357 OEM

Cortex-M4F @ 204 MHz
& Cortex-M0 @ 204 MHz

APPLICATION PROCESSOR BOARDS

NEW



IMX93 UCOM

2x Cortex-A55 @ 1.7 GHz &
1x Cortex-M33 @ 250 MHz



IMX8M COM

Heterogeneous Multicore
Processor (HMP)



IMX8M MINI UCOM

Heterogeneous Multicore
Processor (HMP)



LPC1788 OEM

Cortex-M3 @ 120 MHz

M.2 MODULES BASED ON NXP'S CHIPSETS



2EL M.2 MODULE

- Wi-Fi 6, 802.11 a/b/g/n/ac/ax
- Bluetooth 5.3 BR/EDR/LE
- IEEE802.15.4
- SDIO 3.0 interface, SDR50@100MHz
- Chipset: NXP IW612



2DL M.2 MODULE

- Wi-Fi 6, 802.11 a/b/g/n/ac/ax
- Bluetooth 5.3 BR/EDR/LE
- SDIO 3.0 interface, SDR50@100MHz
- Chipset: NXP IW611



1XL M.2 MODULE

- Wi-Fi 6, 802.11 a/b/g/n/ac/ax 2x2 MU-MIMO
- Bluetooth 5.3 BR/EDR/LE
- PCIe or SDIO 3.0 interface
- Chipset: NXP 88W9098



IMX RT1176 UCOM

- Wi-Fi 6, 802.11 a/b/g/n/ac/ax 2x2 MU-MIMO
- Bluetooth 5.3 BR/EDR/LE
- PCIe or SDIO interface
- Chipset: NXP 88W9098



Endless ways to the future

READY TO DEPLOY SBCs

System integration-ready solutions |
Reduced time-to-market |
Low design investment



PRISMA



MERIDA



ASTRID



SAYLOR



FANLESS EMBEDDED COMPUTERS

Arm® or x86 | Scalable and
customizable | Connectivity
| Integration services



PHOENIX



PYXIS



PICTOR



EASY EDGE



YOUR READY- TO-USE HMI

Flexible & modular mounting |
Linux, Android, and Windows
IoT supported | 5.0" to 21.5"



FLEXY
VISION 21.5



FLEXY
VISION 13.3
ARM/X86



SANTARO
10.1 SG IPS



TANARO 7.0
BX PCT



www.seco-cn.com



sales@embeddedindia.com
www.embeddedindia.com



**EMBEDDED SYSTEMS
SOLUTIONS**

Intentionally Designed for Reliable Performance in Demanding Environments

Sealevel is the leading designer and manufacturer of industrial computers, Ethernet serial servers, USB serial, PCI Express and PCI bus cards, and software for critical communications. We offer over 350 core products, available in nearly every configuration imaginable. Or, if you need something completely customized to meet your specifications, our award-winning team of engineers is at your service.

Engineering Expertise

- Carrier Board Design
- Certification & Compliance
- Embedded Logic
- Functional Density
- Thermal Management

Manufacturing Capabilities

- Board Level Testing
- Box Build Assembly
- Printed Circuit Board Assembly
- Prototyping for NPI
- Through Hole Assembly

Industry Applications

- Aerospace & Defense
- Automation & Control
- Manufacturing & OEMs
- Rail & Public Transit
- Test & Measurement



COM-Based Carrier Solutions

Sealevel's engineering and manufacturing teams have valuable experience designing and producing high-performance carrier boards for both standard and custom applications.



Data Acquisition Devices

Sealevel's Seal/O data acquisition devices provide powerful digital, analog, and serial expansion to any monitoring and control system. Connect to the host via wireless, Ethernet, USB, RS-232, or RS-485.



Embedded Computing Systems

Designed for applications where reliable computing and SWaP-C² optimization is a must, Sealevel embedded I/O computing systems combine the reliability of a PLC with the configurability of an industrial computer.



Serial Cards & Interfaces

Sealevel offers the widest selection of serial choices for data-intensive applications. These interfaces support RS-232, RS-422, RS-485, and RS-530 electrical interface standards, as well as USB and Ethernet solutions.



Touch Panel Controllers

Achieve computing, I/O, and HMI requirements with Sealevel rugged touch panel controllers. HazPAC touchscreen control systems are certified by ATEX and IECEx and for Class I, Division 2 and also maintain NEMA 4/IP64 protection from sprayed liquids.

Relyum Time-aware High-Availability Reliable Ethernet H/W Solutions (HSR, PRP, TSN)

Relyum offers an innovative solution to face the new security challenges emerging in the context of IEC 61850 Smart Grids and substations.

IEC 61850 is the backbone for the Smart Power Automation and Control Systems (PACs), developed to provide a zero-delay and no frame lost Ethernet based networking solution for critical control messages communicated within these systems (like GOOSE or SMV messages).

Relyum by Soce products are key enablers for the time-aware high-availability reliable Ethernet network implementations in the next generation Digital Substations and Smart Grids:

RELY-RB Time-aware Redbox Switch



RELY-RB Time-aware Redbox Switch combines HSR/PRP redundant Ethernet links with regular Ethernet ones in a single equipment. This approach solves the need of switching PTP traffic and providing access to high-availability topologies to the regular Ethernet nodes or LANs.

RELY-REC Time-aware Network Recorder



RELY-REC Time-aware Network Recorder includes means for continuous network monitoring and further debugging. This equipment integrates advanced technologies to support combined PTP and HSR/PRP GbE topologies.

RELY-PCle Time-aware Redbox-DAN -Switch PCIe NIC



RELY-PCle Time-aware Redbox-DAN-Switch PCIe NIC allows direct access to time-aware high-availability networks to legacy PC systems (PCIe or PCI). Moreover, this board removes the need for additional Redbox equipment to connect other non-redundant nodes (Single Attached Nodes - SANs) thanks to the third port which implements low-latency switching to the redundant ones.

RELY-SV-PCle Sampled Value Subscriber DAN PCIe NIC



Relyum has launched an innovative **edge computing product for the Smart Grids**, aligned with the current virtualization trends. This device incorporates to the RELY-PCle model a powerful processing capability for protecting and measuring the quality of the Electric grid based on the SV provided by the merging units.

RELY-RB-SEC Secure Time-aware Redbox Switch

Relyum's offer is completed with this device, a redbox switch equipment with IEC 62351-6 and IEC 62351-9 support, that allows to retrofit the existing infrastructure by ciphering, deciphering and authenticating real-time traffic at wire-speed.

Integrated Services and Consultancy (ISC), an ESA Group Company, is a leading provider of electronic test and measuring instruments since 1993. ISC, a premier distributor partner of Good Will Instrument, GW INSTEK, has been providing high precision electrical Test & Measuring Instruments with optimal TCO - Total Cost of Ownership. Our testing solutions help engineers expertly keep pace with disruption and succeed with innovation in fast growing sectors as in Automotive, IIoT, Semiconductor, Power and many others.

DC POWER SUPPLIES



GSM-20H10
Precision source measure unit
4 quadrant operation of
210V/±1.05A/22W



PSW-Multi Series
Dual-channel/Triple-channel
programmable switching
DC power supply



GPP-3060/6030/3650
Triple-Channel Programmable
DC Power Supply



PSU-Series
Programmable Switching
DC Power Supply

GDS - 3000A Series

650/350MHz DSO, 16 Channel Logic Analyzer

One Oscilloscope with Time Domain, Frequency Domain and Power Measurement

Sample Rate: 5GSa/s; Memory Depth: 200Mpts/CH



MADE TO MEASURE: GWINSTEK high performance test solutions includes over 300 products across five keylines—Oscilloscopes, Spectrum Analyzers, Signal Sources, AC / DC Power Supplies, DC Electronic Loads, Digital Multimeters, LCR Meters, Safety Testers, Other Meters, and Accessories.



GPT-12000 Series
AC/DC/IR/GB Intelligent
Safety Analyzer
Analyze Your Safety Tests



LCR-8200 Series
High-Frequency LCR Meter
The Smarter Way to
Characterize Component



PEL-5000G Series
Programmable DC Electronic Load
High Current Capacity with High
Resolution can be Perfectly Fulfilled



ASR-3000 Series
Programmable AC/DC
Power Source
Uninterrupted AC+DC Transition



MFG-2000 Series
Multi-Channel Function
Generator



GLC 10000
Leakage Current Tester



GDM-906X Series
Dual Measurement Multimeter
Measurement Explores~Insight
and Efficiency



GPM-8330/8320
Digital Power Meter
Industrial Three-Phase AC Power
Measurement



Elektro-Automatik

MOST COMPREHENSIVE PROGRAMMABLE POWER SOLUTIONS

The EA-10000 series includes more than 180 devices: **programmable DC power supplies EA-PS & EA-PSI, bidirectional DC power supplies EA-PSB & regenerative electronic DC loads EA-ELR.**

All series come in power form factors of 2U, 3U and 4U



EA-PSB 10000 2U

- 1.5 kW and 3 kW
- Up to 750Vdc & up to 120 Adc
- Parallel up to 192 kW



ELR 10000 4U

- Power 30 kW
- 0 - 80 V up to 0 - 2000 V
- 0 - 40 A up to 0 - 1000 A



EA-PSB 10000 4U

- 15 kW to 30 kW
- Up to 2,000Vdc
- Parallel up to 1.92 MW

EA Advantages

- High power Density
- Output voltage up to 2000V
- Power output up to 30 kW
- Paralleling up to 2MW
- High efficiency up to 96%
- Autoranging
- Arbitrary waveform and function generator
- Digital control, Anybus
- Low EMC



Programmable DC Power Supplies



Programmable DC Electronic Loads
(Conventional and regenerative)

INTERFACES, PORTS / SOFTWARE

- **Extensive portfolio of interfaces:** Analog, USB, CAN, CANopen, DeviceNet, RS232, EtherCAT, Ethernet 1 and 2 port, Profinet 1 and 2 port, Modbus 1 and 2 port, Profibus, USB-Host
- **Operating software EA-Power Control:** Monitor and control up to 20 devices simultaneously. Set and actual values in one graphic
- **Software EA-Battery Simulator:** Simulates Li-Ion and lead batteries

Reliable, Precise & Efficient Power Supplies for ATE Systems

EA- 10000 SERIES

Wide range of improved DC power supplies and electronic loads

EA POWER RACKS

- 19" cabinet system with up to 1.92 MW
- Systems with programmable laboratory power supplies, electronic loads with energy recovering and bidirectional laboratory power supplies
- Optionally available: Emergency stop (machine standards EN60204-1) Grid monitor (ENS) and insulation monitor Stainless steel water cooling Copper busbar for DC output
- Special construction for various applications

Laboratory Power Supply & Electronic Load
EA-PSB 10000, EA-PSI 10000, EA-ELR 10000



Air-cooled



Water-cooled



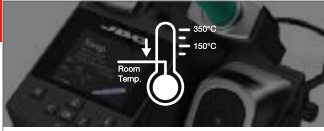
Up to 1.92MW in a rack system





HEATING SYSTEM

JBC provides the **Most Efficient Soldering System** which leads to quality improvement & an efficiency increase.



HEAT MANAGEMENT

Thanks to both **Sleep & Hibernation Modes**, tip life increase exponentially.

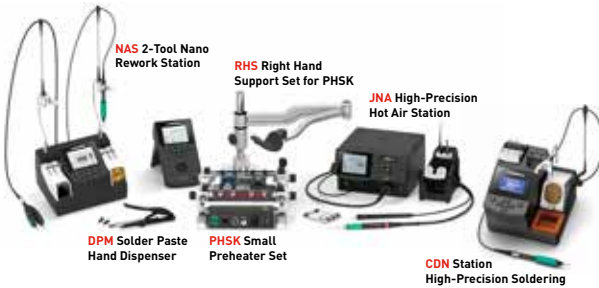


INCREASE PRODUCTIVITY

Use **Quick Cartridge Extractor** to change quickly & safely without switching the station off.

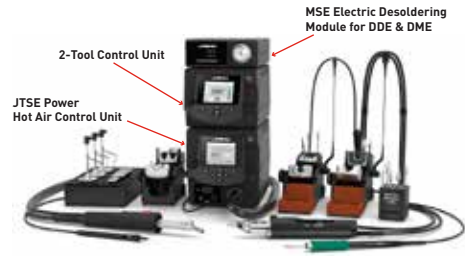
—High Precision—

NANO REWORK SOLUTIONS



—High Power—

RMSE COMPLETE REWORK STATION



SMD Rework System

The ideal solution for your entire rework tasks.

Includes Hot Air Station, Preheater with PCB Support, and Rework Arm.

JBC Preheater Range

For rework on multi-layered PCBAs and/or large ground planes in order to avoid thermal shock and facilitate soldering as well as desoldering processes.

ADJUSTABLE TWEEZERS RANGE

Provide the highest precision when soldering or reworking SMD components.



Preheaters



Fume Extractors



Tip Cleaners



Auto Feeder



Wire Stripper



Automation



With over 37+ of experience, PDR designs, manufactures, and distributes IR Rework Stations, Industrial X-Ray Inspections Systems, and IR Thermal Test equipment for the electronics component and PCB assembly industry.

PDR IR-E6

BGA/SMT REWORK STATION FOR XL PCBs

- Gantry Mounted Advanced Focused IR component heating
- Large Quartz IR PCB preheating with 3 zones
- 24"/620mm PCB Capacity
- Split Beam prism system for simultaneous PCB/component viewing
- Precision Components Pick and Placement up to 5um
- Precision PCB handling
- Component Nest/Flux Application Facility
- Closed Loop Non-Contact Temperature Sensing
- Advanced Automatic Thermal Process Control
- Reflow Process Observation Camera (Optional)
- PCB Forced Air Cooling (Optional)

PDR is still at the forefront of SMD rework technologies working with many of the world's top names in

- **Mobile Phone, PDA, Tablet, Laptop, Desktop, Server repair**
- **Consumer electronics, Set-top, TV, Game Console repair**
- **Aerospace, Weapons, Avionics, Automotive, Transport electronics**
- **Control and systems repair, R&D, assembly and repair rework**

PDR GenX X-Ray Systems

Ultra High-Performance * High Resolution Image Quality Compact X-Ray Systems

PDR X-ray Solutions 2D and 2D+ X-ray systems have set a new industry standard for high quality X-ray images at an affordable price.

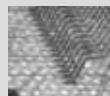
- Truly Remarkable Image Clarity with proprietary HD Camera and Software
- Compact System, PCB sizes up to 21"(533mm) X 17.5" (445mm)
- Customizable Flat Panel Detectors or Image Intensifier options to meet your application requirements
- 90kV, 8 Watt, 4um X-Ray tube, 0.18mA with Magnification up to 1100X
- Programmable 4 Axis (X,Y, Z1/Z2) fully motorized Motion Control
- BGA/QFN/Flip Chip Software Pass/Fail - Sphere Size - Void * 3D Gray Scale Option
- Wide Range of Analysis and Enhancement Tools Powered by PXI Technology
- Frame Averaging, Quad View Analysis, Image Filters, Reporting, More...
- Tilt/Rotate Oblique View and LED Targeting System Options
- Flexible and EASY-To-OPERATE system controls and Software
- Easily Upgrades to 130kV X-Ray as your needs change
- Quality Built Made in the U.S.A. Supported Worldwide
- Engineered for Low Maintenance and Trouble Free Operation



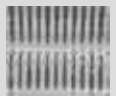
BGA Inspection



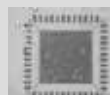
BGA Inspection - Hi Mag



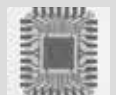
QFP Solder Joints



SMT Connectors



QFN Inspection



Counterfeit Detection



Bond Wire Inspection

OPTICAL INSPECTION SYSTEMS

Eyepiece-less Stereo 3D Microscopes

MANTIS



3 - 15x
Magnification



5MP image quality



Long working distance



Ergonomic position



3D view

Ergonomic
Working



Overlay & Image comparison



Import, export settings



Glasses free

Digital
Image Capture



Outstanding image quality



3D illumination

LYNX EVO



2.7 - 240x
Magnification



360 viewer



WiFi



focus stacking

HD
Image Capture



high precision stage

DIGITAL INSPECTION SYSTEMS

2D Digital Inspection Systems

MAKROLITE 4K



3x - 330x
Magnification

Wide Dynamic Range
Improved contrast

Ultra HD
Exceptional resolution

EVO CAM II



0.8 - 750x
Magnification

Large
Field of View

PC
control option

VE CAM



Wi-Fi
Screen sharing

Wide
Field of View

Touch screen
Compatible

DIGITAL INSPECTION SYSTEMS

3D Digital Inspection Systems

DRV-Z1



6.1 - 93x
Magnification

Easy 3D
Digital View

Share
Live 3D View

**MULTI-FUNCTION
METER****INSULATION
RESISTANCE METER****EARTH RESISTANCE &
RESISTIVITY METERS****POWER QUALITY
ANALYZER****FAULT LOOP
IMPEDANCE METER****RCD METER****PAT - TESTER****MICRO OHM METER****THERMAL IMAGER
CAMARA****CORONA CAMERA****CABLE LOCATORS****PHOTOVOLTAIC METERS****VOLTAGE & PHASE
ROTATION TESTER****MULTIMETER &
CLAMP METER****LUX-METER****HIPOT / VLF**

THE NEXT GENERATION OF 2-IN-1 HIGH PRECISION POWER MONITORING HARDWARE AND BENCHTOP POWER SUPPLY IS HERE

Eliminate the need to buy a separate power supply and power monitoring device. Save space and test setup cost using the highly scalable solution of Monsoon High Voltage Power Monitor (HVPM).

POWERFUL SOFTWARE

Full featured Windows GUI-PowerTool.
Multiple APIs support for Linux, Mac and Windows platforms which allow for fully-automated testing

WIDE VOLTAGE AND CURRENT RANGE

Main Channel- Output Voltage Range 0.8-13.5 V
USB- Up to 5.5 V
Aux Channel -Up to 13 V supplied externally
0.01 V Increments
Continuous Current 6 A

PORTABLE MODULAR DESIGN

Very flexible; Can be deployed individually at a single workstation or scaled up to rack mount style configurations for large scale testing

HIGH ACCURACY

Main Channel- Fine Current Range
50µA-60 mA; Resolution 0.9 µA
(+/- 50µA) in low current measurements
Coarse Current Range 60mA-6A;
Resolution 125 µA

WIDE APPLICATIONS

Development and testing of Smartphones, Tablets, Software App, Automotive, IOT devices with respect to Battery drain

APPLICATION HIGHLIGHTS



INDUSTRY LEADING CERTIFICATIONS

UL, FCC and CE certified

AFFORDABLE

BRIEF SPECIFICATIONS

- Size: 8 in x 6 in x 2 in (20 cm x 15 cm x 5 cm)
- Weight: 1.1 lb (0.5kg)
- Input power 115V to 240V, 47-63Hz
- Main channel 0.8V to 13.5V range
- USB channel 2.1V to 5.4V
- Aux channel input 0.5V to 13V
- UL, CE, FCC certified

TYPICAL USE CASES

- Smartphones, Tablets or Laptops
- Smartphone Apps
- Internet of Things (IoT) Devices, Medical Devices
- USB Devices
- Automotive Sub-circuits
- Prototype Designs
- Power measurement of Arduinos, Raspberry Pi and Microcontrollers
- Burn in testing

WHAT'S INCLUDED?

- High Voltage Power Monitor (HVPM)
- Power supply
- 2 alligator clips
- 2 USB cables
- Information card with links to PowerTool software and support documentation

Leading provider of hardware, software, and services for automotive and industrial communication with emphasis on the fieldbuses CAN & LIN.

Support for Automotive APIs

PCAN-Router Pro FD



PCAN-Router FD



PCAN-Diag FD



PCAN-USB FD



PCAN-USB



CAN/CAN FD/LIN Interfaces

- Single, dual and six Channels Interfaces for classic CAN/CAN FD/LIN/J1939 etc protocols
- Complies with CAN specifications 2.0 A/B and FD
- CAN/CAN FD bit rates for the data field (64 bytes max.) up to 12 Mbit/s
- LIN interfaces are compliant with all LIN specifications (up to version 2.2) and can be used as a LIN master or slave

CAN Analyser: PCAN Explorer6

- Cost effective, life time tool - no AMC
- Recording and playback of CAN/CAN FD / J1939 traffic
- Create your own database
- Import/Export existing DBC & ARXML files
- Automation with macros or VBScript
- Plotter, Instruments Panel analysis support for CAN/CAN FD and J1939 protocols

Diagnostic Tools: PCAN-Diag FD

- Measurement of CAN bit rate, bus load, termination, voltage level and CAN/CAN FD /J1939 data without PC
- Built in oscilloscope and supports sample rate of 100 MHz
- Load .DBC/ARXML file formats
- Built in memory card upto 3GB
- Connectors : USB, HDMI, DB9
- Operated via battery or external power supply

BANGALORE

Mr. M.S. Vijendra Kumar
General Manager (Sales)
M: +91 9845 149926
T: 080-6764 8888 Ext:31
E(Sales): sales@embeddedindia.com
E(Support): support@embeddedindia.com

Mr. Santanu Chatterjee
DGM-Sales-TMI
M: +91 97313 78934
E: Sales@isc4saindia.com

CHENNAI

Mr. D. Kannan
Regional Manager
No.109 /59A , Ground Floor, IV Avenue,
Ashok Nagar, Chennai - 600 083
Tamilnadu
T: 044-24715750
M: +91 98410 53251
E: chennai@embeddedindia.com

HYDERABAD

Mr. C.V.M. Sri Ram Murthy
Manager
Manasa Apartments
Flat Number 3, Plot No 533/3
H. No 3-5-76/18
Vivekanandanagar Colony, Kukatpally,
Hyderabad- 500 072.
T: 040-23063346
M: 90084 76566 / 98486 55337 (C.V.M Sri Ram Murthy)
M: 90082 96566 (A V Gopalakrishna)
E: hyderabad@embeddedindia.com

PUNE

Mr. M.S. Vijendra Kumar
General Manager (Sales)
No.302, Vaidehi Saket, 3rd Floor, 132/1,
Baner Pashan Link Road, Pashan,
Pune - 411 021.
M: +91 98451 49926
E: pune@embeddedindia.com

DELHI

Mr. Arun Roy
Manager-Sales
M: +91 98305 78843
E: delhi@embeddedindia.com

KERALA

Mr. M.S Vijendra
Kumar
General Manager (Sales)
M: +91 98451 49926
E: kerala@embeddedindia.com

KOLKATA

Mr. Arun Roy
Manager-Sales
M: +91 98305 78843
E: kolkata@embeddedindia.com

CORPORATE HEAD QUARTERS

#5 606, 6th floor, World Trade Center
Brigade Gateway, 26/1, Dr. Rajkumar Road,
Mallleshwaram(W), Bangalore-560055
Karnataka, India
T: 080-6764 8888/36
F: 080-67648841



**EMBEDDED SYSTEMS
SOLUTIONS**

www.embeddedindia.com

Automation ESS-NOV2023