

EMBEDDED SYSTEMS SOLUTIONS

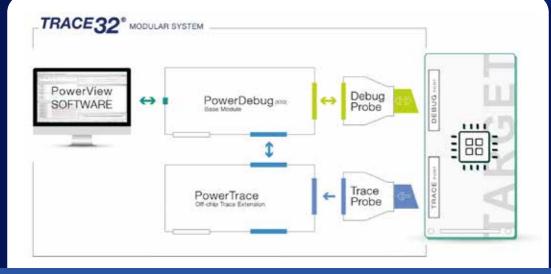


ESS PRODUCT PORTFOLIO FOR INDUSTRIAL AUTOMATION SOLUTIONS









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 Debugger for Simulators, Emulators and Virtual Targets

> EMBEDDED SYSTEMS SOLUTIONS





Embedded development tools by SEGGER



Debug & Trace probes



Software Tools



Embedded Software



Production Tools



RTOS Compiler IDE Encryption IP Graphical Debugger Cryptography Authentication Connectivity Compression User Interface



AE PC (WinimaciLinux) Terminal SW J-Fligsh Terminal SW Veb Browser FTP Client Terminal SW Web Browser Try Client Terminal SW Terminal SW</p

Gang programming with Flasher Hub-12 and Flasher Compacts





Acute Technology Inc., product lineup includes the TravelScope digital storage oscilloscope, TravelLogic logic analyzer, BusFinder eMMC, SD, MIPI D-PHY Protocol Analyzer, LA4000 Logic Analyzer, DG4000/TraveData Digital Pattern Generator, ADP series high-voltage differential probes, TravelBus 2 in 1 analyzer, and MSO2000/3000 Mixed Signal Oscilloscope.

Compact and light weight, they are designed for convenient portability, aiming to provide customers with convenient and efficient solutions.



DI33-0	123	FIVIDUS	SIVIDUS
CAN2.0B/CAN FD	LIN2.2	Profibus	SPI
DALI	MDIO	PWM	SVID
DP_Aux	MII	RGMII	UART (RS232)
eSPI	MIPI I3C 1.1	RMII	USB PD 3
HID over I2C	MIPI RFFE 3	RS-232	USB1.1
12C	Modbus	RS-482	

ETHERNET

10BASE-T1S, MII/RMII/RGMII/GMII/SGMII

Protocol Analyzer

- · Show real-time protocol data.
- · Application timing: massive protocol data with some idles in between.

Protocol Logger

- · Like data logger, save massive data into SSD hard drive.
- · Application timing: massive protocol data.





- Powered by Battery
- · Bandwidth : 100MHz
- · Bandwidth limit : 5MHz / Full
- Over-range indicator
- Over-range alarm
- · Double-layer probe cable for power insulation
- EC conformity : EN 61010-031:2002 +41.2008
- · Works for any grounded DSO with an BNC port

Protocol Monitor

- · Like dash cameras, record protocol data by the device's memory only.
- Application timing: trigger event only happens in very long time.



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EMBEDDED SYSTEMS SOLUTIONS



Innovation that solves your Bluetooth[®] Test Challenges

- CS RF PHY & Part H CS Layer Tests
- HDT & higher bands ready
- BLE/Classic/802.15.4 RF PHY Tests
- · Smallest, lowest power sniffer
- Bespoke protocols on request
- Production & Development Options

- Android sniffer/coverage app
- LE Audio latency measurements
- Runs in Windows, MacOS & Linux
- Configurable GUI & API
- · Bespoke protocols on request
- Perpetual SW Licenses no OPEX

mini-m[®]reph

- · World's smallest USB powered Protocol Analyser
- BR/EDR, BLE, Qualcomm QBHSL, MediaTek mHDTV2.0, IEEE 802.15.4, LE Audio and CS (Sin le/Dual/+++ options)
- Simultaneous RX & TX over the entire 2.4 GHz ISM band
- Live or post-capture decryption with blueSPY GUI
- 16 channel Lo ic Analysis & WiFi Packet Timin
- Custom 2.4 GHz PHYs available upon request

m[®]reph_E.



- Specifically designed for PHY Layer Testing
- Options for BR/EDR, BLE, QBHSL, IEEE 802.15.4
- RF Spectrum Record and Playback option 3 hrs 40 mins
- C/I, blocking & intermodulation signals generated internally
- Accurate power control to -115dBm for coded PHY tests
- Full support for in-band emissions
- · Production Line or Development options available





- Support for all CS RF-PHY test cases, including BT=2.0 modulation index & CS Layer tests via HCI
- Simple control via comprehensive GUI or Python/C dll.
- · Log of all HCI traffic and key events
- Export of raw IQ data, spectrogram or the entire capture
- · Capture of GPIO time aligned with IQ data
- Production Line or Development options available



- Audio latency measured end-to-end, between-channels or relative to on-air packets in real-time
- Audio capture and generation accurately timestamped relative to Bluetooth packets
- Measures LE Audio Presentation Delay
- Measures SYNC between Left and Right channels



PRODUCTION PROGRAMMERS

AEC LabTool Programming Solutions



- < 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

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





- 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



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



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

Dediprog Programming Solutions





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

Automated Programming Systems



- High Throught: Up to 1,000UPH (Unit per Hour) with only one nozzle
- Support Various IC Packaging: Sop, SSOP, TSSOP, PLCC, QFN, LQFP, BGA...etc.

EMBEDDED SYSTEMS SOLUTIONS

 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.



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	SF600Plus-G2	SF600Plus-G2U ISP	StarProg-A	NuProg-E2	NuProg-E
a min	1° 10			1	
SPI NO	R Flash Programmer	G2U ISP Programmer	MCU, CPLD, SPI NOR Flash, SPI NAND Flash & EEPROM	All IC Types (Except for UFS)	All IC Types

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EMBEDDED SYSTEMS

SOLUTIONS

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 XITAG Boundary Scan



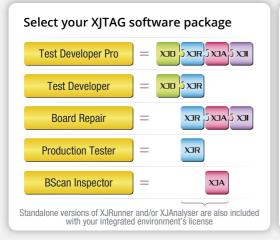
FAST BOARD DEBUG Access the full capabilities of Boundary Scan

EMBEDDED SYSTEMS

SOLUTIONS

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 programing of JTAG and non-JTAG devices in-circuit from the same environment.

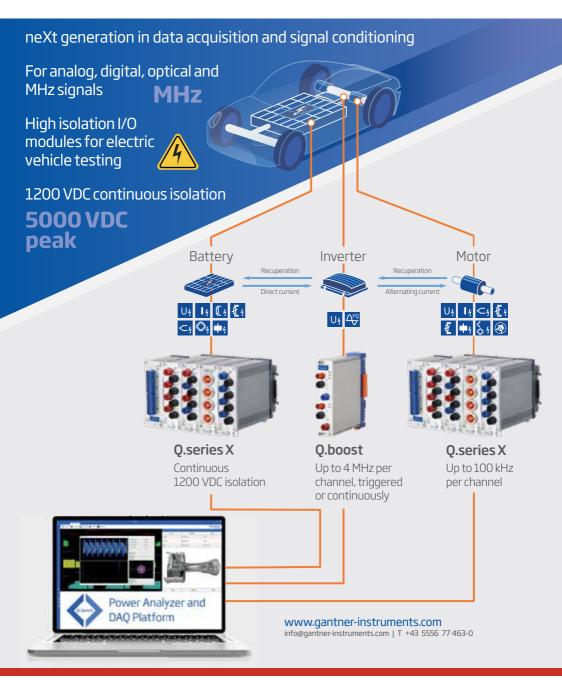


Development Systems XЛ Test Development & Graphical Board Debug XJDeveloper - IDE סכא Test and Programming Development and **Debug Environment** XIInvestigator - Repair Station XJI Manufacturing Repair/Rework Station XJAnalyser - Real-time Debug XJA Prototype Board Bring-up & Real-time Graphical Board Debug XJRunner - Production Test XJR Run-time Manufacturing Test & Programming Environment



Gantner

Electric Vehicle Testing DAQ Solution



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EMBEDDED SYSTEMS

SOLUTIONS



Embedded modules & systems from TQ-Embedded

TQ is one of very few suppliers worldwide, offering solutions on all common processor architectures - from Arm[®], QorlQ[®] Layerscape, Power Architecture[®] up to x86. TO 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
- Own production ISO 13485, EN 9100 & ISO 16949 certified

Category

BoxPC Carrierboard Single Board Computer **Embedded Module**

Form factor

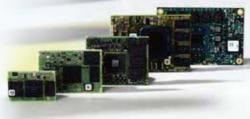
COM Express[®] Compact COM Express[®] Mini TQ Socket

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











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.



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.



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.







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



PYXIS

PICTOR





EASY EDGE



COMPUTER -on-MODULE

Long Term Availability | Highly configurable | Multi-vendor solutions | Reduced time-to-market | ARM & x86 compatibility | Consolidated standards



SOM-SMARC-ASL SMARC[®] Rel 2.1 compliant



-MX95



SOM-uQ7-MX6



SOM-Trizeps -VIII-MX8M



www.seco-cn.com

NO

Rackchip

CSPRESSIF

XILINX.

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EMBEDDED SYSTEMS SOLUTIONS

SEAL-EVEL

Industrial I/O and Embedded Computing for Critical Communications

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.



NEW Flexio Fanless Industrial Embedded Computers

- Industrial Processing & Performance with Long-Term Availability
- Solid-State Design Guarantees Extended Operation
- Unmatched I/O Configurability for Automation & Control

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.



<u>G</u>UINSTEK

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

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

GDS - 3000A Series 650/350MHz DSO, 16 Channel Logic Analyzer

One Oscilloscope with Time Domain, Frequency Domain and Power Measurement



EMBEDDED SYSTEMS

SOLUTIONS

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.





G^w**INSTEK**

Total Test & Measurement Solutions

LATEST PRODUCTS



ASR-6450 AC / DC 4.5kVA & ASR-6600 AC / DC 6kVA **10 Perfect Output Modes, Dual Current Convergence**



150V/600V/1200V 8 units in parallel for 48kW max. power, Built-in tests for Battery Discharge, BMS, Short circuit, OCP, OPP test modes



DSO, Spectrum analyzer, Arbitrary waveform generator Digital multimeter, DC power supply









	Sorensen		
wer (kW)	12kW	25kW	37kW
ltage (V)	Maximum Current (A)		
600	50	100	150
1500	-	50	50

50

50

*Global pricing for base units without options, Incoterms Ex Works (EXW) San Diego, California, USA.

High Performance, Modular Bidirectional, Regenerative Programmable DC Power System

- · Full DC source and sink capabilities with power levels from 12 kW up to 37 kW
- · Fully scalable up to 1.2 MW with parallel systems
- Available voltage ranges of 600V, 1,500V and 2,000VDC in a 4U rack chassis providing full power up to +/-150A within a single system.

The Mi-BEAM Series is designed for testing today's complex, high power electronics for the automotive, energy storage, industrial, and aerospace markets in a variety of applications. This platform covers all test needs through the product life cycle from advance research and development (R&D), to design validation, and production test requirements.

Pow Volt

2000



Asterion



High Performance Programmable AC / DC Power Source



Asterion AC Series Advanced Features

- High power density in 1U / 2U / 4U / 14U chassis up to 18kVA
- Auto paralleling for higher power
- Voltage: 0-400VAC/0- 500VDC, Current: 0-60Arms/phase, Power: 500VA - 36000VA
- · Complete avionic test suites (optional)
- Standard LXI LAN, USB and RS232, optional GPIB

Asterion AC Series Advanced Features

- · Commercial and military avionics test
- · AC power simulation
- · Frequency & voltage conversion
- IEC standards testing







High Performance Solar Array Simulation Power Supply

- > 2 independent, isolated 600W channels or 1 1200W channel in 1U
- Voltage: 40 V to 220 V
- Current: 2.72A to 20A
- > 2µ second shunt switching recovery
- Peak Power Tracking
- > Primary and secondary over voltage and over current
- > Output electronic circuit breaker
- > Built in fault data recorder
- Power On Self-Test
- Active power factor correction (PFC)
- Color touch panel monitoring
- Standard LAN interface
- > Full remote control via AMETEK SAS software or SCPI commands

SEQUOIA SERIES

PRECISION PROGRAMMABLE REGENERATIVE GRID SIMULATORS FEATURES AND CAPABILITIES

- 0 333VAC, 0 3.000A / PHASE 15KVA 1.08MVA
- Single Solution for: AC/DC Programmable Power Source, AC/DC Grid Simulator, AC/DC Resistive or Complex Electronic Load
- Dual Voltage ranges that support over voltage testing on 480V based systems
- ▶ 500uS time resolution for Transients
- Virtual Panels control software included
- > Non-Linear current waveform programming during Load mode
- Phase coordination among multiple units (LKM/LKS)
- > Powerful set of analog controls for PHIL and Modulation tests
- Trigger In & Out to permit extensive coordination with external systems
- Extensive Onboard diagnostics
- Digital I/O, including RS232, USB, Ethernet (GPIB optional)
- Auto-paralleling for maximum flexibility with multi-chassis configurations



Example of a fully integrated Solar Array Simulator

30 channel 600W/ch 18KW total



California





EtherCAT Software



acontis offers **real-time software** for more than 20 years. We are the experts for our customers that need reliable real-time capabilities for machine controllers, medical devices, transportation systems and more. Our company is known for high quality products "Made in Germany".

We take real-time machine communication to the next level with our extensive portfolio of **EtherCAT software** - enabling our customers to realize the best-in-class EtherCAT controllers, as well as enabling thousands of companies to commission and operate EtherCAT networks with maximum performance and highest availability. With our unique EtherCAT simulation technology, we facilitate the realization of digital twins of devices and networks and also empower our customers for hardware-independent implementation of EtherCAT SubDevices.



The acontis EtherCAT MainDevice software is the core in countless EtherCAT networks - including machinery, aerospace, medical, automotive, measurement and many more industries.

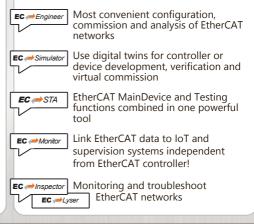
Complementing to the EC-Master, acontis offers a full portfolio for all users of EtherCAT: From development and verification, commissioning and supervision to maintenance and trouble-shooting.

Key Benefits of acontis EtherCAT software

EC Master

- High performance and low CPU load for fast update rates.
- Ready-to-run for many operating systems.
- Supporting all major CPU architectures: x86, ARM, RISC.
- Available for many processors from AMD, Broadcom, Infineon, Intel, NXP, Nvidia, Renesas, ST, Texas Instruments or Xilinx.
- Fast project realization by easy-to-use software and APIs, extensive documentation, examples and professional support.
- Most reliable and robust implementation, field-proven since 20 years in many high-profile controllers from Bosch Rexroth, Lenze, KUKA, Omron, Panasonic, Yaskawa and many more!

acontis EtherCAT portfolio





EMBEDDED SYSTEMS

SOLUTIONS





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 Power ——

— High Precision— NANO REWORK SOLUTIONS



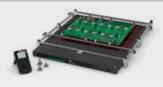
CDN Station High-Precision Soldering





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.



ADIUSTABLE TWEEZERS RANGE Provide the highest precision when soldering or reworking SMD components.







Fume Extractors



Tip Cleaners









Wire Stripper



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EMBEDDED SYSTEMS SOLUTIONS



ELEVATE YOUR EFFICIENCY, EMBRACE AND EXPERIENCE THE FUTURE OF REWORK, TODAY!

BGA/SMT REWORK STATIONS

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 isn't just a brand, it's a revolution delivering unmatched control and effortless execution.

At the forefront of SMD rework technologies, PDR are working with many of the world's top names in:

- Electronic Manufacturing
- Defence
- Automotive
- Medical
- Research & Development



PDR IR-E3

- Advanced Focused IR component heating
- Quartz IR PCB preheating with up to 3 zones
- Split Beam prism system for simultaneous PCB/component viewing
- Precision Components Pick & Placement up to 10um
- Precision PCB handling
- Component Nest/Flux Application Facility
- Closed Loop Non-Contact Temperature Sensing
- Advanced Automatic Thermal Process Control
- Reflow Process Observation Camera
- PCB Forced Air Cooling

FOCUSED INFRARED

What you see you heat. No collateral damage. Instantaneous control.



PLACEMENT TECHNOLOGY

Our placement technology allows every operator to achieve the same standard of quality.



INTELLIGENT SOFTWARE

One profile to rework nearly all applications.







X-RAY INSPECTION SYSTEMS

ULTRA HIGH-PERFORMANCE HIGH RESOLUTION IMAGE QUALITY COMPACT X-RAY SYSTEMS

Founded in 1998, PDR Xray Systems has become a world leader in providing high quality industrial X-Ray solutions to specifically address the needs of the Semiconductor, PCBA, Medical Device, Government, and NDT communities.

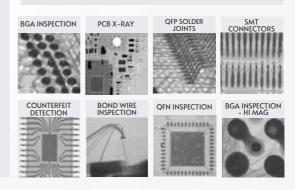
Noted for high image quality and affordability, PDR XRAY Systems is the product of Engineering Teams formerly associated with GenRad, Teradyne, and Nicolet Xray Imaging Systems. This overarching expertise in the field of X-ray technologies has led to the development of superior performance PXI technology that forms the backbone of each PDR X-Ray system.

PDR's 90kV X-ray and 130kV X-ray systems are engineered with high-quality materials and craftsmanship and X-ray safety standards exceeding the most stringent requirements for industrial safety. All X-ray non-destructive inspection systems built by PDR are equipped with a suite of X-ray image processing tools and features that incorporate cutting-edge technologies to insure that your X-ray system delivers quality X-ray images and the power of analytic tools required for a successful X-ray program.



PDR GENX-130P

- BGA Inspection/Analysis
- Counterfeit Inspection
- Porosity/Voiding Detection
- Medical Device Inspection
- Wire Bond Inspection
- LED Inspection
- Less Than I uSv/hr (0.1 mR/hr) USFDA 21 CFR-1, J-1000, 1020.40



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EMBEDDED SYSTEMS

SOLUTIONS

Diamond's products are **designed and tested** to ensure ruggedness and reliability when used in harsh environment applications.

 Component selection including latching connectors and wide temperature components, the use of thicker PCBs on larger size boards, and extensive use of heat spreaders instead of heat sinks go a long way toward improving ruggedness.

DIAMOND

STEMS

- All products undergo temperature testing, including power cycling at temperature extremes, to ensure reliable operation.
- Select products have been put through shock and vibration testing to assure their reliability in demanding applications such as military ground vehicles. Products are typically tested with most features active (i.e. all I/O ports active and all expansion sockets occupied) and at full processor load, to provide greater confidence in the test results.



Saturn Rugged Apollo Lake X7-E3950 SBC with Data Acquisition and PCIe/104 Expansion Test Standard: MIL-STD-202H

SINGLE-BOARD COMPUTERS



Gemini Rugged COM Express Compact type 6 SBC with PCI/104-Express and miniCard I/O expansion Test Standard: MIL-STD-202H

ETHERNET SWITCHES



Jasper Rugged COM Express with PCI/104-Express and miniCard I/O expansion Test Standard: MIL-STD-202H, MIL-STD-810H



EPS-8130-XT Managed 8-Port Gigabit Ethernet switch with embedded layer 2 software Test Standard: MIL-STD-202H

EPS-24G4X-HSP EPS-24G4X Managed 28-Port Gigabit Ethernet Switch with 4 10G SFP+ Ports Test Standard: MIL-STD-202H



EPSM-10GX4 Compact Managed 28-Port Rugged Gigabit Ethernet Switch Module Test Standard: MIL-STD-202H



DS-MPE-GE210 PCIe MiniCard Gigabit Ethernet Module Test Standard: MIL-STD-202H

I/O AND POWER



DS-MPE-SER4M 4-Port High Speed Serial Port PCIe MiniCard Module Test Standard: MIL-STD-202H, MIL-STD-810H



DS-MPE-GPIO 36 Channel Digital I/O PCIe MiniCard Test Standard: MIL-STD-810H

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EMBEDDED SYSTEMS SOLUTIONS



Mil-Grade Rugged Systems

Diamond Systems delivers military-grade rugged embedded computing systems and Ethernet switches with breakthrough pricing and delivery times. Common features and benefits of these systems include:

- Solid-body aluminum CNC construction
- MIL-DTL-38999 connectors
- -40 to +85 deg. C or similar wide operating temperature
- MIL-STD-461, -704, and -1275 compliant power supply with isolation option
- IP67 environmental protection
- Impressive I/O features
- High degree of configurability and customizability
- Short leadtimes and competitive prices



GEODE-OSB Rugged system with Nvidia Jetson AGX Orin supporting up to 8 GMSL cameras Test Standard: MIL-STD-810H

MIL-GRADE RUGGED SYSTEMS



GEODE-JSP Rugged System with Intel® 11th Gen Core i7 processor Test Standard: MIL-STD-810H



SabreNet-12000-001 Rugged 12-Port Managed Layer 2 or 3 Ethernet Switch Test Standard: MIL-STD-810G

MIL-STD-202H TEST DETAILS

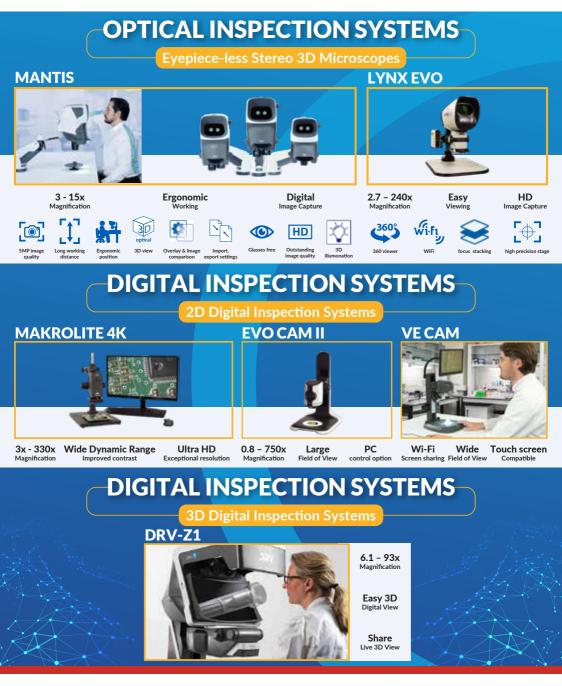
All tests conducted with products operational.				
Test	Description			
Sine sweep vibration	Method 204, tested at x, y, z axes 10-57 Hz @ 0.06 inch pk-pk 57-2000Hz @ 10G Sweep rate: 7.5 Min/Sweep, 2 Sweeps			
Random vibration	Method 214, Table-1 Test Condition A, B, C & D Tested at x, y, z axes Condition D- 11.95 Grms for 15min			
Shock	Method 213, Condition J, tested at x, y, z axes Half sine waveform test, 30G, 11mSec 3 shocks/direction			
MIL-STD-810H TEST DETAILS				
All tests conducted with products operational.				
Test	Description			
Random vibration	Method 514.8, Table 514.8 C-VII, Category 4 Tested at x, y, z axes and envelope 40 Minutes per axis @ 2.24 Grms			
Shock	Method 516.8, tested at x, y, z axes and envelope; Terminal peak saw tooth, 40G, 11mSec 3 shocks/direction, operational; 40G, 6mSec, 2 shocks/direction, non-operational			
MIL-STD-810G TEST DETAILS				
All tests conducted with products operational.				
Test	Description			
Random vibration	Method 514.7C, Table 514.7C-V, Category 4, Tested at x, y, z axes, 40 min/axis 2.24 Grms			
Shock	1. Functional Shock Test: Method 516.7, Procedure I, 40G 11ms, 3 shocks/direction 2. Crash Hazard Shock Test: Method 516.7, Procedure V, 75G 6ms, 2 shocks/direction			



EMBEDDED SYSTEMS

SOLUTIONS





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EMBEDDED SYSTEMS SOLUTIONS

WE MEASURE GLOBALLY



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		CABLE LOCATORS	PHOTOVOLTAIC METERS
VOLTAGE & PHASE ROTATION TESTER	MULTIMETER & CLAMP METER	LUX-METER	HIPOT/VLF

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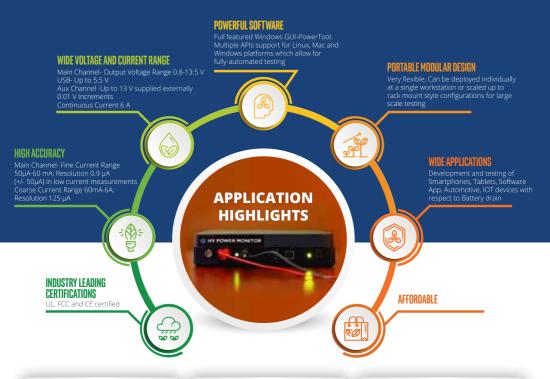


EMBEDDED SYSTEMS SOLUTIONS



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).



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

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RelyUm

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



RELY-PCIE 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-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-SV-PCIe 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.

EMBEDDED SYSTEMS SOLUTIONS

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.





CAN/CAN FD/LIN Interfaces

- Single, dual and six Channels Interfaces for classic CAN/CAN FD/LIN/[1939 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

KERALA

Kumar

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General Manager (Sales)

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CAN Analyser: PCAN Explorer6

- Cost effective, life time tool no AMC
- Recording and playback of CAN/CAN FD / 1939 traffic
- Create your own database
- Import/Export existing DBC & ARXMI 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 / 1939 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

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Automation ESS-JULY2024