ESS PRODUCT PORTFOLIO FOR INDUSTRIAL AUTOMATION SOLUTIONS
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**

<table>
<thead>
<tr>
<th>Entry Level</th>
<th>DP2T</th>
<th>High Efficiency</th>
<th>DP2000</th>
<th>Compact Universal</th>
<th>DP1000-G3</th>
<th>Premium Universal</th>
<th>DP3000-G3</th>
</tr>
</thead>
</table>

**Gang Programmer and Duplicator**

- Able to Use Independently or Integrate with Automated Systems

<table>
<thead>
<tr>
<th>ProgMaster-U8</th>
<th>NuProgPlus-U8</th>
<th>NuProgPlus-U16</th>
</tr>
</thead>
<tbody>
<tr>
<td>All IC Types (Except for UFS)</td>
<td>All IC Types (Include UFS, PCI-E and CAN bus IC)</td>
<td>All IC Types (Include UFS, PCI-E and CAN bus IC)</td>
</tr>
</tbody>
</table>

**Handheld Size Engineering Programming Solutions**

<table>
<thead>
<tr>
<th>SF100</th>
<th>SF600</th>
<th>SF600 Plus</th>
<th>SF700</th>
<th>K110</th>
<th>StarProg-A</th>
<th>StarProg-U</th>
<th>NuProg-E</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPI NOR Flash</td>
<td>SPI NOR, SPI NAND, &amp; SPI Octal, NOR</td>
<td>SPI NOR, SPI NAND &amp; EEPROM</td>
<td>MCU, CPLD, SPI NOR Flash, SPI NAND Flash &amp; EEPROM</td>
<td>All IC Types (Except for UFS)</td>
<td>All IC Types</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
For over 30 years Diamond Systems has been delivering embedded computing boards and systems to customer in a variety of industries around the globe.

### Categories

<table>
<thead>
<tr>
<th>SBCs</th>
<th>Ethernet Switches</th>
<th>Mass Storage</th>
<th>Form Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CAN I/O</td>
<td>Ethernet I/O</td>
<td>PC/104</td>
</tr>
<tr>
<td></td>
<td>Power Supplies</td>
<td></td>
<td>PC/104-Plus</td>
</tr>
<tr>
<td></td>
<td>Systems</td>
<td></td>
<td>PC/104-Express</td>
</tr>
<tr>
<td></td>
<td>Enclosures</td>
<td></td>
<td>EPIC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>EBX</td>
</tr>
</tbody>
</table>

### Form Factor

<table>
<thead>
<tr>
<th></th>
<th>COM Express</th>
<th>COM Express Mini</th>
<th>PCIe MiniCard</th>
<th>Ethernet Switches</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

### Rugged Ethernet Switches

Boards offer off-the-shelf solutions  
Modules speed development of custom solutions  
Layer 2 and 3 software, IEEE1588/PTP support  
Rugged, customizable SabreNet systems

### Nvidia Jetson Solutions

Top-quality, I/O-rich, cost-effective solutions for advanced GPU-based computing

### SATURN Rugged SBC

Rugged design, PCIe/104, Minicard, and precision analog I/O provide an ideal platform for your next embedded system.

### I/O Expansion

Rugged PC/104 I/O Modules provide easy off-the-shelf I/O expansion for embedded systems requiring ruggedness and a high level of I/O.

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www.embeddedindia.com
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**

**PPX-Series**
Programmable High-Precision DC Power Supply

**PFR-100 Series**
Fanless Multi-Range DC Power Supply

**PLR-Series**
Low Noise DC Power Supply

**PSW-Series**
Programmable Switching DC Power Supply

**MDO-2000A SERIES**

One Oscilloscope, Two Domains
Meet your signal analysis requirements on both time domain and frequency domain.

**MADE TO MEASURE:** GWINSTEK high performance test solutions includes over 300 products across five keylines–oscilloscopes, spectrum analyzers, function generators, power supplies, Electronic loads & component / safety testers.

**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-3000H 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

**AFG-3000 series**
IQ baseband waveforms Medical waveforms Automotive electronics waveforms

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

**GPM-8310**
Digital Power Meter
A New Choice in Industrial Power Measurement

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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 0.5V to 13V
- 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

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

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

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

HIGH ACCURACY
- Main Channel: Fine Current Range 50µA-60 mA, Resolution 0.9 µA
- (+/-50µA) in low current measurements
- Coarse Current Range 62mA-6A, Resolution 1.25 µA

WIDE APPLICATIONS
- Development and testing of Smartphones, Tablets, Software, App, Automotive, IoT devices with respect to Battery drain

INDUSTRY LEADING CERTIFICATIONS
- UL, FCC and CE certified

AFFORDABLE

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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.

<table>
<thead>
<tr>
<th>Highlights</th>
<th>Category</th>
<th>Form factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>‣ Application kit (starterkit)</td>
<td>BoxPC</td>
<td>COM-Express® Basic</td>
</tr>
<tr>
<td>‣ BSP Support</td>
<td>Carrierboard</td>
<td>COM Express® Compact</td>
</tr>
<tr>
<td>‣ Schematic mainboard review</td>
<td>Single Board Computer</td>
<td>COM Express® Mini</td>
</tr>
<tr>
<td>‣ Mainboard layout and production</td>
<td>Starterkit</td>
<td>SMARC</td>
</tr>
<tr>
<td>‣ Customer specific mainboard design</td>
<td>Embedded Module</td>
<td>TQ Socket</td>
</tr>
<tr>
<td>‣ Complete system design, well-founded application design knowledge</td>
<td></td>
<td>TQ LGA</td>
</tr>
<tr>
<td>‣ Own production ISO 13485, EN 9100 &amp; ISO 16949 certified</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

**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.
NANO REWORK SOLUTIONS
A complete tooling range for High Precision

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.

NAS Station, with the JBC Most Efficient Soldering System and the Intelligent Hibernation Mode, is the best solution for soldering and rework of SMT components requiring the highest precision. JNA, is the only Hot Air Station to rework, position and remove SMDs without affecting nearby components. PHSK Small Preheater Set is used as a secondary heat source to reduce the amount of heat supplied by the main soldering tool, reducing thermal shock to components & PCBs.

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.

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Lauterbach is the world’s leading manufacturer of complete, modular microprocessor development tools with 35 years’ experience in the field of embedded designs and has supported debugging and tracing of multicore chips for more than 10 years. It provides an integrated debug environment for embedded designs with its TRACE32 tools which consist of:

- PowerView, a universal GUI
- PowerDebug tools for debugging
- PowerTrace tools for program/data flow trace
- PowerIntegrator tools for logic analysis
- Software-only tools for debugging and tracing

A debug system normally consists of a standard interface module and an architecture-specific debug cable providing standard debug features such as:

- JTAG, cJTAG, SWD and other debug interfaces
- Run control (program-/data-breakpoints, single stepping, real-time trigger)
- FLASH programming
- Multicore debugging
- OS-support with task analysis, UEFI
- HLL debugging (C, C++)

**PowerDebug E40**
- USB 3.0 host interface
- Extensible with Logic Analyzers

**PowerDebug PRO**
- USB 3.0 and Gbit Ethernet host interface
- Extensible with PowerTrace tools and Logic Analyzers

**Debug and Trace**
A debug and trace system is composed of standard debug/trace modules and architecture-specific debug cables/trace probes (called preprocessors), which connect the base modules to the targets. In addition to the debug features it provides:

- Serial and parallel off-chip trace (ETM, Nexus, etc.)
- Non-intrusive flow trace
- Time-correlated multicore trace
- Run-time analysis and statistics
- Long-time trace (streaming)
- Code coverage

**Our range of products:**
- PowerTrace II and PowerDebug PRO
- PowerTrace Serial and PowerDebug PRO
- CombiProbe 2 and PowerDebug E40 or PowerDebug PRO

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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
- BG/AQFN/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

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Vision Engineering's eyepiece-less stereo microscopes are better for the user's well-being and business productivity. Their ergonomic design lets the operator sit back in a comfortable position, and the expanded pupil technology delivers an enhanced 3D view of the subject. The relaxed natural posture makes it easy to work with tools and to manipulate the subject. Greater comfort and ease of use directly translate into greater productivity and quality.

OPTICAL INSPECTION SYSTEMS

Eyepiece-less Microscopes

<table>
<thead>
<tr>
<th>Mantis Compact / Mantis Elite / Elite-Cam HD</th>
<th>Lynx EVO</th>
</tr>
</thead>
<tbody>
<tr>
<td>High value, low investment stereo viewer.</td>
<td>High productivity stereo zoom microscope.</td>
</tr>
</tbody>
</table>

DIGITAL INSPECTION SYSTEMS

Digital Inspection Systems

<table>
<thead>
<tr>
<th>Makrolite 4K</th>
<th>VE Cam</th>
</tr>
</thead>
</table>

3D DIGITAL INSPECTION SYSTEMS

3D Digital Inspection Systems

<table>
<thead>
<tr>
<th>DRV-Z1</th>
<th>DRV N Series</th>
<th>DRV Stereo Cam</th>
</tr>
</thead>
<tbody>
<tr>
<td>The first digital stereo 3D viewer with zoom</td>
<td></td>
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</tr>
<tr>
<td>3D view, capture and share</td>
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<tr>
<td>Unique 3D without the need for special glasses</td>
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<tr>
<td>Remote viewing and sharing of live 3D images</td>
<td></td>
<td></td>
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<tr>
<td>Communication across sites for real-time collaboration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6x-186x magnification</td>
<td></td>
<td></td>
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<tr>
<td>Automatic high zoom digital stereo microscopy system</td>
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<td></td>
</tr>
<tr>
<td>25:1 and 18:1 zoom ranges</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnification up to 800x</td>
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<td></td>
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<tr>
<td>Motorized or manual zoom functions</td>
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<td></td>
</tr>
<tr>
<td>Bright-field &amp; fluorescence EPI illumination</td>
<td></td>
<td></td>
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<tr>
<td>8.3x - 351x magnification</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Working distance up to 176mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Can be fitted with 360° optical viewer</td>
<td></td>
<td></td>
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<tr>
<td>UV/White illumination options</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote viewing and sharing of live 3D images</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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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.

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
Test Development & Graphical Board Debug

- XJDeveloper
  Test and Programming Development and Debug Environment

- XJInvestigator
  Manufacturing Repair/Rework Station

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

- XJRunner
  Run-time Manufacturing Test & Programming Environment

Featured Capabilities
Advanced Connection Test
3rd Party Integration
High-speed Flash Programming
Layout Viewer
Schematic Viewer
Waveform Viewer
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JTAG Chain Debugger
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Network Licensing
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- Can FD Connections for High-speed USB 2.0, PCI Express, PCI Express Mini, and M.2
- Can/LIN interfaces for conventional PC Interfaces and Embedded Applications
- I/O mModules with CAN Connection for Control, Measured Data Recording, and Processing
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- Routers and Gateways for the forwarding of messages between CAN buses and other Networks
- Data Loggers and Diagnostic Hardware
- Products for Education, Demonstrations, & Test Setups
- Chip Solutions for the CAN and CAN FD Connection to USB and PCI Express

Software
- CAN Development Systems for Windows 10, 8.1, 7, CE 6.x and for Linux
- Programming Interfaces for Various Protocols and Standards
- Software to Monitor and Diagnose CAN and LIN Busses
- Programs for Recording, Playback, and Simulation of Message Traffic
- Configuration Software for CAN Hardware from PEAK-System

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CAN and CAN FD Interface for High-Speed USB 2.0

PCAN-USB Pro FD
CAN, CAN FD, and LIN Interface for High-Speed USB 2.0

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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-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-SV-PCIe Sampled Value Subscriber DAN PCIe NIC**

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-PCIe 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.
Bi-directional Power Supply PSB 12000-40 4
Programmable DC Power Supply and Regenerative Electronic Load in one device

EA-PSB 12000-40: 2000V, 40A, 30kW
Systems of up to 450 KW

Energy recovery with up to 95% efficiency

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