ESS PRODUCT PORTFOLIO FOR INDUSTRIAL AUTOMATION SOLUTIONS
DediProg is a company aiming at the solutions of 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**

- **DP2T** Automated IC Programming System
- **DP1000-G2** Automated Programming System
- **DP3000-G3** Automated IC Programming System

**Uniiversal IC Programmer**

- **ProgMaster-U8** 8 sites universal IC Gang Programmer

**eMMC & UFS Programming Solution**

- **NuProg-F8** UFS/eMMC Gang Programmer & Duplicator

**Products**

- SPI Flash Programming Solution
- eMMC & UFS Programming Solution
- Flash Series IC Programmer
- Universal IC Programmer
- On Board Programmer

Automated IC Programming System

- Backup Boot Flash Kit
- UFC IC Readers
- Programmer accessories
- SMT Sockets

**DP2T** is the most compact & cost-saving automated programming system. It is able to embed with either one unit of the universal programmer (ProgMaster-S8) to support SPI Flash, EEPROM, MCU, and CPLD...etc. Or All-in-one Programmer (NuProgPlus) to support all devices such as SPI Flash, EEPROM, MCU, CPLD, eMMC & UFS...etc.

DP2T also supports both input & output in Tray or Tape & Reel. With the stable quality & high efficiency, the UPH can easily go up to 1000. Save your budget & lower your labor cost starts from DP2T now.

**Auto Tray-350** is a new type of automated tray loader that can embed with ink marker or laser marker; the marking can be done after the materials have been placed into the tray. The Auto Tray-350 can work independently or integrate with the automated programming system.
Electronic Measurement Instruments

Microwave/Millimeter-Wave Measurement Instruments
- Signal Generators
- Signal/Spectrum Analyzers
- Network Analyzers
- Noise Figure Analyzer
- Microwave Power Meter
- RF and Microwave Multifunctional Analyzers
- Power Amplifier
- Basic Measurement Instruments
- Digital Phosphor Oscilloscope (DPO)

Basic Measurement Instruments
- Digital Phosphor Oscilloscope (DPO)

Opto-Electronic Measurement Instruments
- Optical Fiber Fusion Splicer
- OTDR
- Optical Source
- Optical Power Meter
- Optical Attenuator

Automatic Test System Solutions
- Microwave/Millimeter-Wave Antenna Testing System
- Microwave/Millimeter-Wave RCS Testing System
- Comprehensive Electromagnetic Material Comprehensive Test Platform

Microwave/ Millimeter-Wave Components
- Passive Components
- Active Components

3656A/B/D Vector Network Analyzer
(100kHz ~ 20 GHz)

4957D/E/F Handheld Multifunctional Analyzer
(18GHz/26.5GHz/40GHz)

4051 Series Signal / Spectrum Analyzer
(3 Hz ~ 67 GHz)
Altair SmartCore™
Build powerful and secure IoT applications

Altair SmartCore is a cloud-native platform, which offers an integrated set of services and features to help you easily connect your things to the digital world. Available as a Platform as a Service (PaaS) or on-premises, Altair SmartCore will help you execute your IoT projects faster in an easy-to-use, reliable, and highly scalable environment.

- **Open**
  Altair SmartCore platform supports many IoT protocols allowing fast data integration and communication between a wide range of connected assets, entities, and systems.

- **Scalability**
  Altair SmartCore is built on an open architecture designed to scale, it has flexible licensing, and is supported by a growing global partner ecosystem. There's almost no limit to how quickly your project can grow.

- **Security**
  Altair SmartCore provides a secure IoT environment for your IoT project by implementing industry-standard security protocols.

“Altair SmartCore was the perfect partner to launch Energy Smart Generation as it shortened our time to market to develop and test the product and later on proved to be a reliable partner to support the product for our key clients.”

- Raúl Gil García,
  Business Development Manager at Unatec
NVIDIA JetBox-Nano
Build a complete Nvidia high performance computer system.

Aries PC/104-Plus SBC
PC/104-Plus SBC with Intel E3800 CPU & On-Board Data Acquisition The Best PC/104 Bay Trail SBC in the World

Ethernet switches
SabreNet Rugged System

Venus 3.5 Inch Core i7 SBC
Venus, based on Intel 6th / 7th generation Core i7 processors, offers an attractive combination of rugged design plus a wide range of I/O to serve vehicle and other harsh environment applications.

Built for Rugged Environments
Embedded Solutions for Demanding Real-World Applications

Transportation Systems
Diamond’s single board computers and I/O expansion modules are deployed in a wide range of fixed and mobile transportation-related systems worldwide.

Medical Equipment
Diamond’s single board computers and PC/104 I/O modules are integrated into many leading-edge medical devices. The small size and high reliability of our products make them ideal for use within both fixed and portable medical equipment, and for the testing and maintenance of medical devices.

Energy Management
Diamond’s single board computers and PC/104 I/O modules are used in a wide variety of energy and power applications worldwide, including electric power generation, oil and gas exploration, remote utilities monitoring/control, and others.

Aerospace & Defense
Diamond’s single board computers and I/O expansion modules are deployed in numerous performance-critical Aerospace and Defense applications around the world.

Industrial Automation
Diamond’s single board computers and PC/104 I/O modules can be found in industrial automation applications around the world, including both process control and discrete manufacturing. Typical applications include collecting and processing real-time data, distributed processing, precision control of robots, and other automated machinery.

Instrumentation
Diamond’s SBCs and PC/104 I/O modules can be found integrated into rugged instruments worldwide. Typical applications are out doors in harsh environments and under the extremes of hot and cold temperatures.
MADE TO MEASURE: GWINSTEK high performance test solutions includes over 300 products across five key lines – oscilloscopes, spectrum analyzers, function generators, power supplies, and component/safety testers.

Main Product Lines

- **Electronic Test & Measurement Instruments**
  Oscilloscopes, Spectrum Analyzers, Signal Sources, AC/DC Power Supplies, DC Electronic Loads, Digital Multimeters, LCR Meters, Safety Testers, Other Meters, and Accessories.

- **Environment Test Business**

Accreditations and Awards

- "Industrial Technology Advancement Award of Distinction"
- "National Small and Medium Enterprise Award"
- "ISO-9001 International Quality Accreditation"
- "ISO-14001 International Environmental Authentication"
- "TAF Instrumental Laboratory Accreditation"
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: Up to 5.5 V
- Aux Channel - Up to 13 V supplied externally 0.01 V increments
- Continuous Current 6 A

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
- High Current Measurements 0.01 V Increments
- USB: Up to 5.5 V
- 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

INDUSTRY LEADING CERTIFICATIONS
- UL, FCC and CE certified

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

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

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
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.

**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.
Energy recovery with up to 95% efficiency

EA-PSB 12000-40: 2000V, 40A, 30kW

Systems of up to 450 kW

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