Your Experts For Modular Test And Measurement Applications
Universal platform for test and measurement applications

SOLUTIONS FOR A WIDE VARIETY OF INDUSTRIES AND APPLICATIONS

Protect your electronics in test and measurement systems as well as simulation applications. Benefit from the advantages provided to you by nVent.

<table>
<thead>
<tr>
<th>Solution Area</th>
<th>Description</th>
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<tr>
<td>Range of solutions for everything from autonomous driving to analysis and evaluation of sensor data.</td>
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<td>Integrated manufacturing tests of complex electronic devices for large-scale production.</td>
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<td>Test and measurement applications along the production line with IIoT connection. Manufacturing quality assurance.</td>
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<td>Test solutions for traditional, digital, RF, analog, and protocol-based tests.</td>
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<td>Tests for controlling hardware, sensors, and software. Recording and analyzing application data.</td>
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<td>Stress tests under extreme conditions for determining service life as well as flight simulations.</td>
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Scalable solutions for your test setup

SAVE TIME BY SELECTING ADAPTABLE PRODUCTS

nVent SCHROFF supports your test and measurement equipment as well as simulation applications by providing electronics cabinets, systems, cases, subracks and front panels including handles and accessories. Thanks to cutting-edge designs, functions, and technologies, you can achieve convincing results more quickly and improve the performance of your application.

Comprehensive consultation for selecting the right solutions for your application

Environmental parameters:
• Temperature
• EMC and protection class (IP)
• Shock and vibration, seismic and earthquake protection
• Stationary or mobile application
• Certification, verification, specification

System architecture:
• Processor power
• Interfaces
• Communication module
• Power requirement

Fast results
Support for your time-to-market goals through online configurators and 3D models

Long-term availability
Comprehensive after-sales service and assurance of your product life cycle

Custom branding
Adaptation to your individual corporate design for differentiation of your applications

Selecting the integration level
Mechanical and electronic integration of components, such as cooling, power supply and backplane

Personal consultation
Support for selecting the right solution with comprehensive documentation and consultation from our technical sales department

Adapting to individual requirements
Modifications and customized adaptations based on a large number of off-the-shelf products and predefined solutions

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Comprehensive selection of products

From electronics cabinets to small system cases, nVent SCHROFF provides you with the right infrastructure for your test setup. Get all the products you need to protect your electronics from a single source. The modular design allows our products to quickly and easily adapt to your application.

Embedded systems

**PXI Express**
Modular platform for test and measurement applications
- PCIe Gen 3 and up to x8 links support a sufficient bandwidth for acquiring and evaluating simulated and measured data
- Sophisticated CLK and trigger architecture, which supports to synchronize the measured data
- Backwards compatibility with PXI-1 provides access to a variety of dedicated measuring cards and test cards

**MicroTCA**
The standard for complex test and measurement systems
- Particularly suitable for fail-safe systems thanks to the redundant architecture and integrated hardware management
- Extremely precise analog signal processing with complete separation of analog and digital signals and voltages in the system (subspecification MTCA.4.1)

**COM Express**
Small form factor case with COM module and carrier board
- Compact and powerful platform for small, portable, test and measurement systems or for systems integrated in a machine
- Adaptation of the standard COM module to measurement interfaces through a modular or application-specific carrier

**VPX**
Rugged systems for the most stringent environmental requirements
- VPX offers the most common data transfer and processing technologies specially for applications subject to extreme environmental conditions
- Various cooling solutions ranging from convection and conduction to liquid cooling
- Optional redundancy and optional hardware management enable a fail-safe system, even under the most extreme conditions

**CompactPCI Serial**
System solution with PCIe Gen 3
- Just like PXI Express, CPCI Serial supports PCIe Gen 3 and up to x8 links
- Ethernet, S-ATA and USB per slot for easy integration of standard peripherals
- In addition to the predefined signal lines, there are numerous user-assignable pins for special measuring tasks

Our product portfolio
### Mechanical platforms

#### Interscale
**Platform for a compact application with a small footprint**
- Integrated EMC protection in a solid & lightweight case construction
- Customer-specific case designs for individual sizes, cutouts, and corporate branding
- Variable heat sink sizes, plus a patented flexible heat sink that can be integrated to ensure the required operating temperature
- Easy configuration of your desired system from standardized components

#### RatiopacPRO
**Flexible design for every application**
- Modular 19" case platform with broad standard product range for individual configuration of your case solution
- For stationary and mobile test and measurement applications as well as installation in a cabinet
- Flexible dimensions of height, width, and depth
- RatiopacPRO Air for optimal active cooling of your application

#### MultipacPRO
**Space-saving. As a standard case or individually configured**
- 19" case for space-saving horizontal integration of printed circuit boards or non-standard components
- Cost-effective solutions made of sheet metal, or as a rugged machined aluminum version
- Removable front and rear panel for easy machining and individual cut-outs

#### EuropacPro
**Custom solutions thanks to flexible platform**
- Modular 19" subrack platform for application requirements in areas ranging from the laboratory to harsh environments
- Shock and vibration-resistant for high mechanical stress environments
- EMC protection provided by stainless steel gaskets or textile gaskets, also for an expanded temperature range
- Intelligent and intuitive configuration of a subrack in accordance with your requirements using the nVent SCHROFF online configurator tool

#### Front panels and handles
**Quickly adapted with an appealing design**
- Diverse selection of front panels with aesthetic and functional properties
- Digital printing, silkscreen printing, paint and powders, in accordance with the requirements of your application
- Customized and standardized cut-outs and positioning
- Easy and intuitive front panel design using the nVent SCHROFF front panel configurator
Comprehensive selection of products

ELECTRONICS CABINETS FOR TEST AND MEASUREMENT APPLICATIONS

The nVent SCHROFF Novastar electronics cabinet looks sleek and can include customer logos and branding to display your product or company image. This impression is reinforced by the various versions of the frame and cover strips as well as the simple & modern looking solid glass doors.

Novastar
Light, sleek, and robust

Traditional application areas:
- Validation and optimization of signal processing
- Audio/video tests
- System and control monitoring
- Prototype test and development
- Test and inspection equipment

- Door has 180° opening angle from the new hinge concept. Can be mounted on the left or right side
- Robust locking handle
- Simple fitting of side panel without tools
- Heavy-duty rack with lateral groove for mounting support arm systems and other accessories
- Extensive selection of castors

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Our powerful portfolio of brands:
CADDY  ERICO  HOFFMAN  RAYCHEM  SCHROFF  TRACER