

Built to Connect, Power and Protect Innovation

Streamline your complex technology with integrated infrastructure solutions



WELCOME TO **NVENT SCHROFF**

CONNECTING & PROTECTING **INNOVATIONS FOR REAL-WORLD USE**

Recognized worldwide, nVent SCHROFF cabinets, chassis, power and cooling solutions take your innovations from the R&D lab to the field.

nVent SCHROFF helps organizations transform complex requirements into streamlined technology.



INDUSTRIES

FACTORIES GLOBALLY

+65 YEARS OF INNOVATION

+120 PATENTS FILED

GHZ EMI-SHIELDED ENCLOSURES

SUBRACK CONFIGURATIONS

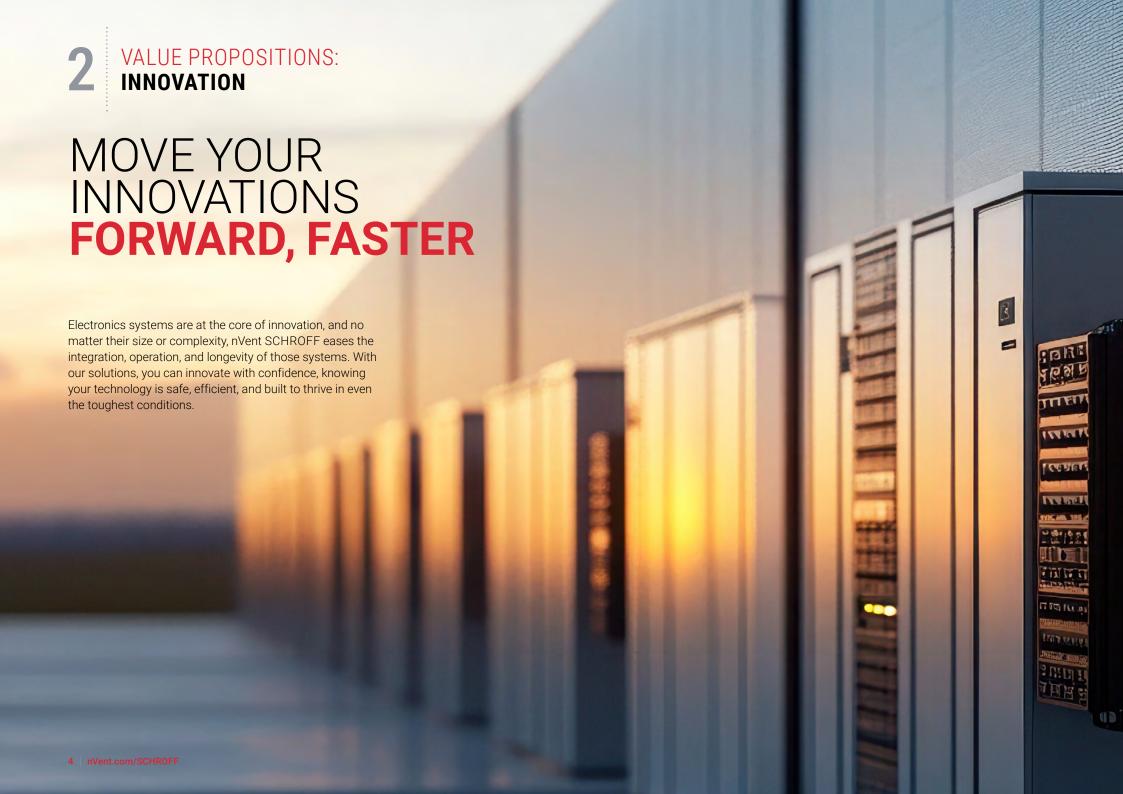
STREAMLINE INNOVATION. PROTECT CRITICAL TECHNOLOGY

As companies move technology forward, their innovations demand more complex connections, drastic power increases, and efficient thermal management.

nVent SCHROFF helps organizations bring critical systems to market with cabinets, chassis, power and cooling solutions that connect, power and protect technology.

With nVent SCHROFF, you unlock decades of expertise when and how you need it. From quick online product configurators and ordering tools to custom designed, prototyped, built, and scaled solutions, you can accelerate time-to-market with a trusted solution.



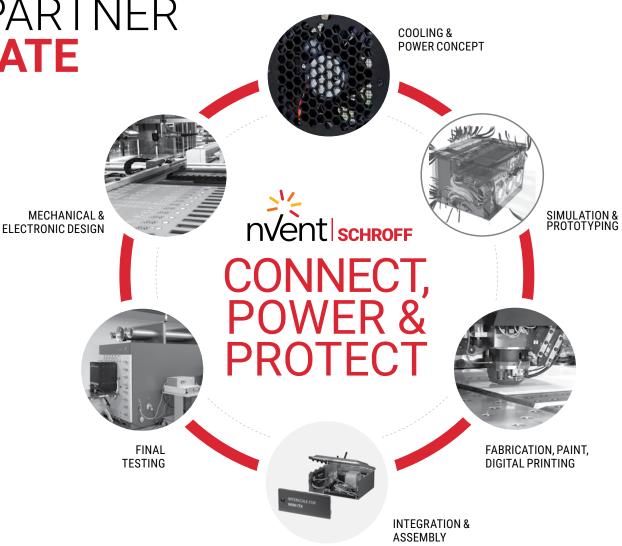


INTEGRATED SOLUTIONS FROM A SINGLE PARTNER

UNLOCK IMMEDIATE PERFORMANCE

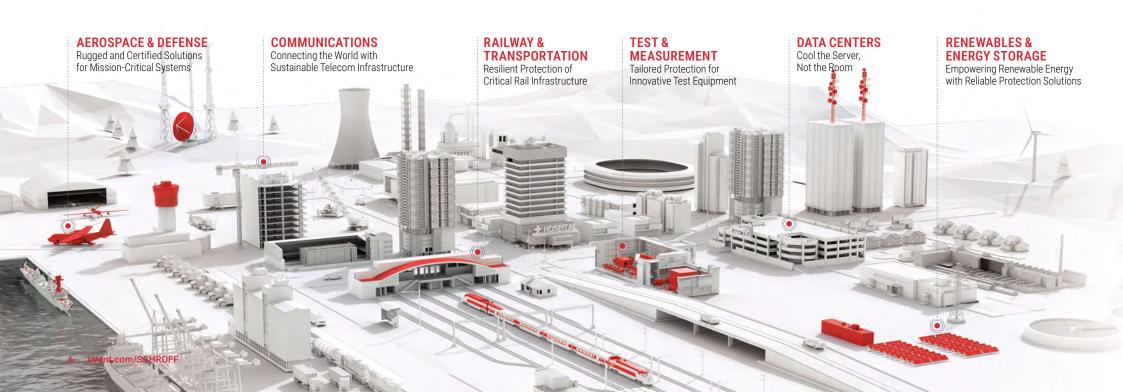
Support your innovative technology with a reliable, long-term partner for enclosure technology, power supply and thermal management. By engaging a single partner, you gain a consistent, invested, expert resource as you grow, evolve, and scale your applications.

With nVent SCHROFF you can customize your solutions based on standard building blocks to meet your specific application requirements.



APPLICATION-READY SOLUTIONS FOR VARIOUS MARKET ENVIRONMENTS

From rail to sky and battery storage to powerful quantum computing, we connect and protect applications across performance-critical industries. As performance demands increase, power and cooling become more complicated and for that reason, are central to each of our solutions.





RUGGED SOLUTIONS THAT ENABLE MISSION-CRITICAL INNOVATION

With a deep understanding of military and defense requirements, we streamline your path to success with complete mechanical, electronic, and thermal solutions that simplify complex challenges. Our technological expertise allows us to provide innovative solutions for thermal management, protecting the mission critical PCBs and other components from heat damage. With standard or modifiable COTS from Card Loks to Conduction Cooled Assemblies, Ruggedized Chassis to 19" Cabinets, our solutions are not only compliant but optimized for performance, providing reliable protection in the most rugged environments.

With nVent SCHROFF, your mission-critical innovations are protected and cooled for optimal performance.

ADDITIONAL INFORMATION:

- Design to meet VITA and SOSA standards
- In compliance with ITAR, DFARS and JOSCAR
- 19" Cabinets meet MIL-STD-901E, MIL-STD-167-1A, MIL-STD-461G, and MIL-STD-810H
- Standard COTS or modifiable



SOLUTIONS FOR CRITICAL SYSTEMS

Communications, Navigation, Weapon Guidance, Surveillance & Data Recorders



OPTIMAL PRODUCT PERFORMANCE

Next-gen Card-locks, Conduction-cooled Assemblies, MIL-Certified Fully Isolated Electronics Cabinets



MILITARY SPECS CERTIFIED

Supporting Part Tracing for Government Programs





RESILIENT PROTECTION OF **CRITICAL RAIL INFRASTRUCTURE**

Global investment in rail is driving the modernisation of rail infrastructure, including trackside, monitoring and traffic management systems. nVent SCHROFF streamlines your operations with advanced solutions that keep you ahead. We shield your technology from the harshest conditions — harsh outdoor weather, shock, vibration, and EMI/RFI interference — while ensuring compliance with the latest industry standards. Whether on rail cars, tracks, in signal boxes, or data centers, we help you safeguard your vital systems, allowing you to focus on driving progress and innovation in transportation.

With nVent SCHROFF, your technology operates seamlessly, enabling you to build a smarter, more resilient future for transportation.

ADDITIONAL INFORMATION:

- Certified solutions to support global rail initiatives such as DB standards and SNCF
- Advanced EMC Designs up to 40 GHz
- EMI shielding per EN 61000-5-7 (40 GHz) and IEC 61587 DL 3 with stainless steel or textile gaskets
- On-Board Racks (OBR) suitable for ongoing vibrations, shock, high temperatures, and high humidity
- Vibration and environmental resistance per EN 50155, NF F 60-002



NEXT-GEN RAILWAY TECHNOLOGIES



RAIL-CERTIFIED **PROTECTION**

On-board, Trackside



RUGGED MECHANICS

Shock & Vibration Resistance. Superior EMI Shielding, Optimized Cooling





COMMUNICATIONS NETWORK INFRASTRUCTURE SUPPORT FOR ALWAYS-ON INNOVATION

In the world of critical communication services, all-systems-on is the only option. At nVent SCHROFF, we streamline your operations with advanced data communication and telecommunication cabinets that safeguard your communication networking systems. Our solutions do more than just protect your equipment — they enhance efficiency, extend service life, and boost productivity, all while minimizing maintenance and lowering your total cost of ownership.

With nVent SCHROFF, you can focus on pushing the boundaries of your technology, knowing your network infrastructure is optimized for peak performance.

ADDITIONAL INFORMATION:

- 5G MPN thermal management solutions with Refrigerant Air Conditioners
- Power Solutions with edgeNRG in 5G Applications
- Outdoor Comms Cabinets Designed for Telecoms





SYSTEM SOLUTIONS

5G, Open Ran, Mobile Private Network, Edge Computing, Core Network, Backhaul, Access Network



CUTTING-EDGE TECHNOLOGY

Complete Electronics, Mechanical Manufacturing, Integration Services



GLOBAL MANUFACTURING FOOTPRINT & NETWORK

Support for Telecom Infrastructure Deployments Around the Globe

RENEWABLE **ENERGY**



PIONEERING INNOVATION IN **RENEWABLE ENERGY INFRASTRUCTURE**

Known as a driving force behind innovation since developing a euro board subrack system that helped make the 19" standard universal, nVent SCHROFF continues to lead the way in electronic infrastructure. nVent SCHROFF empowers the renewable energy industry—particularly in battery storage—to innovate faster and more efficiently. Our solutions are designed to be compatible, modular, and scalable, providing you with the flexibility to grow your systems seamlessly. By starting with our standards-based offerings, then customizing them to fit your specific needs, we save customers from the time and inefficiency of developing complex, proprietary systems.

With nVent SCHROFF, your battery storage technology is ready for the future — optimized for performance, simplified for growth, and built to power innovation.

ADDITIONAL INFORMATION:

- · Global recognition and compliance with national and international standards, including IEC 60297-3-x and IEEE 1101.x
- Thermal management (AC or liquid cooling)
- · Robust enclosures (outdoor enclosures subject to environment, withstand weight of heavy batteries)
- Transportation and logistics for large outdoor enclosures
- Flexibility with varying size of batteries and battery layouts



CERTIFIED ELECTRONICS PROTECTION

Power Generation, Transmission & Distribution (T&D), and Power Consumption



CONFIGURABLE SOLUTIONS

Increased Efficiency, Improved Safety Management



MECHANICAL COMPONENTS

Racks, Cabinets & Chassis, Custom-built to House Batteries, Power Electronics,





TAILORED, STANDARDS-COMPLIANT PROTECTION FOR TEST AND MEASUREMENT

Electronics are at the core of your innovations, and we're here to protect, power and connect them. With one of the industry's most extensive portfolios of enclosures and accessories, nVent SCHROFF offers modular platforms that streamline your operations and adapt to your specific needs. As a global leader in test and measurement equipment infrastructure and electronics systems protection, we have more than 10,000 readily available items and custom solutions tailored to your exact needs. Whether you need modifications to standard products or fully customized solutions, we simplify your process, allowing you to focus on what really matters—moving your test equipment forward.

With nVent SCHROFF, you get world-class protection and service that keeps your innovation on track and ready for the next challenge.

ADDITIONAL INFORMATION:

- · Compliant with IEC and IEEE standards
- Designed to meet PICMG, VITA and PXISA specifications



MODULAR DESIGN PRINCIPLES

Quick & Easy Adoption, From Small To Large-scale Series



YEARS OF KNOW-HOW

Full Set of Services for T&M for Protection of Electronics



SOLUTION & INTEGRATION PARTNER

Pre-assembled & Customized Solutions for Electronic Integrations & Software Implementation



BUILT TO PROTECT, POWER & CONNECT YOUR CRITICAL **ELECTRONICS**

For more than five decades, the nVent SCHROFF brand has been synonymous with driving innovation and empowering customers across industries with reliable, high-performance electronic infrastructure solutions. From PCB accessories to subracks, cases, power supplies, and pre-assembled chassis, nVent SCHROFF's diverse product portfolio is designed to streamline your operations and protect your most critical systems. By offering solutions that are not only modular and customizable but also built to global standards, nVent SCHROFF helps customers accelerate their technology development and stay ahead in their markets.

nVent SCHROFF delivers the infrastructure you need, when you need it, ensuring your system is optimized to your requirements.



DECADES OF INNOVATION

Over 65 years of leadership in electronics packaging and infrastructure solutions.



COMPREHENSIVE PRODUCT PORTFOLIO

From PCB accessories to cabinets, subracks, backplanes, and power supplies, nVent SCHROFF offers a wide range of solutions for all your electronics needs.



GLOBAL STANDARDS COMPLIANCE

All nVent SCHROFF products meet international standards, including IEC 60297-3-x and IEEE 1101.x, ensuring seamless integration and compliance.









CUSTOMIZABLE SOLUTIONS

Broad and innovative engineering capabilities enable us to offer complete solutions that meet your specific requirements.





BUILT FOR ROUGH ENVIRONMENTS

Ruggedized, shock- and vibration-resistant systems that protect your critical electronics, ensuring reliability in even the harshest conditions.







WORKING WITH US

NVENT SCHROFF ENGAGEMENT LEVELS: FROM COMPONENTS TO **COMPLETE SYSTEMS**





INDIVIDUAL MECHANICAL **COMPONENTS**

Receive individual mechanical parts for your own processing and assembly. This level offers flexibility for customers with in-house production capabilities.

BENEFITS:

- Full control over assembly
- Cost-effective for in-house integration
- Standard components available for immediate use



We provide pre-assembled sub-assemblies or cases built from individual components, ready for installation. Standard items are available from stock.

BENEFITS:

- Simplified installation with pre-assembled components
- Reduced assembly time and complexity
- Off-the-shelf availability for faster project turnaround



ELECTRICAL & MECHANICAL ASSEMBLY

Your customized enclosure includes mechanical assembly with minimal electrical integration, such as power supplies, wiring, fan installation, and connectors.

BENEFITS:

- Tailored to your specifications
- Combines mechanical and basic electrical components
- Reduces internal assembly workload
- Faster deployment with ready-to-install solutions

At nVent SCHROFF, we offer flexible solutions ranging from standard off-the-shelf products to fully customized, integrated systems. Our modular approach ensures that your technology is scalable, adaptable, and easy to customize over time. Whether you need individual components or full system integration, we have a solution tailored to meet your needs.

nVent SCHROFF ensures that no matter the level of engagement, you receive scalable, customizable solutions that make your technology easier to manage and deploy, helping drive innovation faster.









ELECTRONIC ENCLOSURE ASSEMBLY

Complete sub-assemblies with advanced electrical integration, including power supplies, backplanes, cabling, and monitoring systems, delivered as plug-and-play solutions. Full testing and documentation are provided.

BENEFITS:

- Fully tested and documented plug-and-play systems
- Reduced risk and time savings with ready-to-use assemblies
- Complex components integrated into one cohesive unit

TOTAL SYSTEM INTEGRATION

Your system is fully integrated with active electronic components and software. Extensive testing ensures smooth operation from installation to commissioning.

BENEFITS:

- Seamless integration of hardware and software
- Comprehensive system testing for reliability
- Fast deployment with fully operational systems

COMPLETE INTEGRATED SOLUTION WITH LOGISTICS

Receive fully operational systems, designed, integrated, and tested, complete with logistics support for global distribution. We handle everything from assembly to delivery, shipping directly to OEMs or end-users.

BENEFITS:

- End-to-end solution, including logistics
- Direct shipping to your customers or users
- Fully customized and tested systems ready for immediate use
- National and international distribution support

GLOBAL STANDARDS, OPEN PLATFORMS, **NVENT SCHROFF DELIVERS THE** INFRASTRUCTURE YOU NEED

Our comprehensive range of enclosures not only protects your vital technology but also simplifies your operations, allowing you to focus on what matters most driving progress. From modular cabinets to small form factor enclosures, we offer tailored solutions that shield your systems from environmental hazards, EMC noise, and power and cooling constraints, while ensuring easy integration and long-term reliability.

STANDARD, OFF-THE SHELF SOLUTIONS

- More than 10,000 SKUs
- Local availability through more than 2.500 channel locations worldwide
- Free downloads available: test reports, certificates. CAD data.













PLATFORM PRODUCTS MODIFIED TO MEET A PARTICULAR CUSTOMER DEMAND

- Selection of colors, sizes, screen printing, and cut-outs
- Selection of configurations
- · Short delivery time

CUSTOM SOLUTIONS, DESIGNED AND DEVELOPED BY AN ENGINEERING TEAM

- Custom size, color, screen printing,
- Custom cut-outs and packaging
- Integration of customer supplied parts into the housing

VERSATILE ELECTRONICS CABINETS FOR **SEAMLESS INNOVATION**

Unlock the performance you need with nVent SCHROFF's customizable electronics cabinets, designed to adapt to your requirements. Our steel and aluminum frame platforms come in a variety of sizes and configurations, giving you the flexibility to meet exact specifications. Choose from a range of IP/NEMA protection levels and optional features like perforated covers, fan units, or air-to-water heat exchangers to optimize performance. To speed and ease the process, nVent SCHROFF can manage the assembly, integration, and testing of mechanical and electrical components, delivering a complete, ready-to-deploy solution.

With nVent SCHROFF, your cabinets are designed to meet the specific requirements of your application supporting you focus on driving progress.



- RFI shielding option ensures up to 60 dB at 1 GHz and 40 dB at 3 GHz
- MIL-STD-901D certification
- Earthquake resistance up to Belcore Zone 4

FLEXIBLE CABINETS FOR CRITICAL INNOVATION

- Open frames
- Versatile outdoor (OSP) solutions
- Rack-integrated air-to-water heat exchangers
- Flexible cable management solutions
- Environmental monitoring



CABINET PRODUCT LINES:

- Varistar CP Flectronic
- Varistar CP EMC
- · Varistar CP Seismic
- Varistar CP MIL
- Varistar CP Server & Networking
- Varistar CP Colocation
- Varistar CP Liquid Cooled Cabinets
- T&M Novastar Cabinets
- Lab Rack

ELECTRONIC ENCLOSURES & COMPONENTS

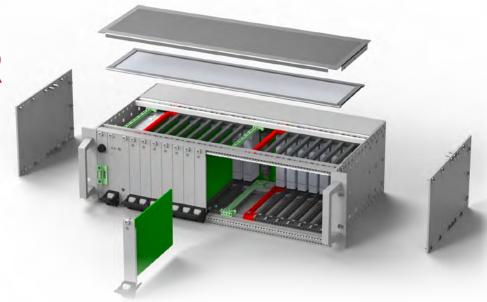
RACK-MOUNT & DESKTOP ENCLOSURES FLEXIBLE SOLUTIONS FOR MULTIPLE APPLICATIONS

nVent SCHROFF's 19" subracks and rack-mount chassis provide the flexible, scalable platform you need to drive innovation. Designed for versatility and reliability, our subracks are available in easily customizable kits. With a wide range of accessories and modular options, we make it simple to enhance and modify components to fit your exact requirements.

Whether you need standard configurations or fully tailored solutions, nVent SCHROFF ensures that your technology is protected, adaptable, and ready for the future.

BENEFITS:

- Superior RF-shielding tested up to 40 GHz per IEC 61000-5-7, with textile and stainless steel gaskets
- Shock and vibration resistant up to 25g in accordance with EN 50155, NF F 60-002, MIL-STD-167, IEC 61587 DL 3, MIL-STD-810G, MIL-STD-901D, NF F 60-002
- Fire safety compliance for components meeting UL-VO and EN 45545-2, R22, R23 and R24 HL3
- Environmental resistance tested in accordance with EN 50155, against dry heat, damp heat, low temperatures, salt spray and composite temperature/humidity cycle tests
- Easily online customizable options for sizes, colors and cooling solutions streamline your workflow with instant available 3D models
- Extensive accessories compatible with all subracks and cases, enabling seamless integration and adaptability for a variety of applications



PRODUCT LINES:

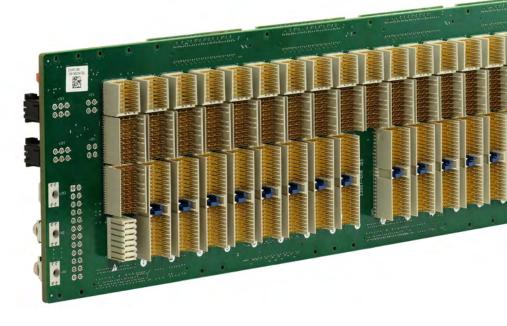
- 19" rackmount subracks, chassis and cases
- 19" desktop cases
- Front panels and plug in units
- Small form factor and rugged cases
- Board retainers and extractors
- Rugged conduction and cooled assemblies and modules

STREAMLINED, HIGH-PERFORMANCE **SYSTEM SOLUTIONS FOR SCALABLE INNOVATION**

nVent SCHROFF offers a powerful range of open standard systems designed to accelerate your innovation and simplify your operations. Designed to meet PICMG, VITA and PXISA specifications, our systems offer robust mechanical enclosures, superior signal integrity for lightning-fast data transfer and proven cooling performance to ensure your technology performs at its best. Open standard platforms make it easier for you to customize, scale and future proof your solution, empowering you to focus on driving progress and staying ahead of the competition. Reliable and managed hardware minimizing downtime and decreasing your service efforts.

Our backplanes deliver exceptional signal integrity and support the highest data transfer rates, such as PCIe up to Gen 5 and Ethernet up to 100 G. For added protection, we offer conformal coating options, so your technology is safeguarded in even the harshest environments.

With nVent SCHROFF, you can customize your backplane and system solution with ease, allowing you to move forward with your innovation faster.



MAXIMIZE SYSTEM UPTIME CONTROL WITH INTELLIGENT HARDWARE MANAGEMENT SOLUTIONS

nVent SCHROFF's hardware management solutions empower you to monitor and control your systems with precision, providing full visibility into the health and performance of your boards and chassis. By detecting abnormal temperatures, voltages, or currents, our solutions trigger real-time alerts and countermeasures to keep your technology running smoothly. With local controllers monitoring each board and reporting to a centralized shelf or chassis controller, you maintain complete oversight and control from an external system manager.

PLATFORMS

- AdvancedTCA
- MicroTCA
- PXI
- PXI Express
- CompactPCI
- CompactPCI Serial
- VME
- VME 64x
- VPX

BACKPLANES AND TEST ADAPTERS

- CompactPCI /-Serial
- VME and VME64x
- VPX
- Power Backplanes
- Universalbus
- Test Adapters

POWER SUPPLIES

- 19" Power Supplies
- CompactPCI /-Serial
- MicroTCA
- VMEbus

GET THE COOLING YOU NEED FOR **YOUR POWERFUL ELECTRONICS SYSTEM**

Efficient, effective cooling is imperative for next-generation innovations. nVent SCHROFF teams are experts in optimizing the cooling solution dedicated to your application in relation to costs and performance. While forced air cooling is still the most common technology, the fans can create stronger EMC and acoustic noise, as well as higher vibrations, which can be detrimental to your application. To address these challenges, nVent SCHROFF offers a range of solutions, including fan cooling, conduction cooling, air conditioners, heat exchangers, immersion cooling, and chillers, tailored to meet specific product requirements and goals.

With nVent SCHROFF, you gain unparalleled access to cooling solutions that empower you to advance and scale your innovations faster.

ADDITIONAL OFFERING:

- Thermal Control and Monitoring: control modules, thermostats, hygrostats, fan speed controllers
- Board Cooling: Card-Loks and Wedge Loks, VITA Conduction Cooled Assemblies and VITA 1.6 Conduction Cooled Keying
- **Subracks and Embedded Cooling:** Conduction Cooling Enclosures, Fan trays, Fans and Air Deflector
- Cabinet Cooling: 19" Fan Trays, Air Conditioners, Liquid Cooling up to 45 kW per rack



EFFICIENT POWER MANAGEMENT FOR HIGH-PERFORMANCE SYSTEMS

Effective power management is critical to ensuring the reliability and efficiency of your advanced electronics systems. nVent SCHROFF's expert teams specialize in optimizing power distribution and safety for a wide range of applications, ensuring uninterrupted operation while maximizing performance. Whether you need standard power distribution units, intelligent rack power management, or complete solutions with enhanced safety features, nVent SCHROFF provides scalable options tailored to meet your specific power needs.

With nVent SCHROFF, you can confidently power your innovations, ensuring they are reliable, safe, and ready to scale.

ADDITIONAL OFFERING:

- **Intelligent Power Distribution Units:** Offering real-time monitoring, load balancing and remote management for optimized performance
- Power Supply Modules: Modular solutions with redundancy and high-efficiency options for critical applications
- Rack Safety Plus: Enhanced protection with integrated safety features such as EPO, circuit breakers, surge protection, and inrush current limiter
- **Customizable Solutions:** Modular solutions that adapt to evolving power requirements across industries
- **Advanced Monitoring:** Integrated monitoring systems providing detailed data on power consumption, temperature, and system health



PROVIDING THE WORLD WITH 100 YEARS OF CONNECTION AND PROTECTION



nVent CADDY has earned the trust of electrical contractors by providing simple, intuitive solutions that make job sites safer and more efficient.



nVent GARDNER BENDER has been innovating and manufacturing conduit bending and conduit fishing equipment, electrical connection supplies, tools and wire management products for electricians for over half a century.



nVent KING INNOVATION is a recognized leader in the design and manufacture of innovative construction grade products for the irrigation, electrical, gas utility and landscape lighting markets.



nVent ERICO electrical solutions are ideal for the commercial, industrial, utility, rail, alternative energy and telecom industries, offering a breadth of reliable grounding, bonding and lightning protection.



nVent HOFFMAN specializes in electrical enclosures to protect and connect people and equipment in virtually any environment.



nVent LENTON provides trusted taper-threaded splicing systems, form savers, couplers, anchors and accessories.

At nVent, we believe safer systems ensure a more secure world. We connect and protect our customers with inventive electrical solutions. We design, manufacture, market, install and service high performance products and solutions for mission-critical equipment, buildings and essential processes. Our solutions are helping build a more sustainable and electrified world.



nVent ERIFLEX provides low voltage power distribution solutions that reduce total installed cost and increase design flexibility.



nVent ILSCO is an industry leader in specification grade mechanical, compression, power connectors, tools and accessories serving the OEM, industrial, electrical distribution channels.



nVent SCHROFF offers electronics cabinets, server cabinets, chassis for embedded computing systems, and printed circuit board accessories.

POWERING ELECTRIFICATION WITH RELIABLE, FUTURE-PROOF SOLUTIONS

nVent is at the forefront of electrification, offering scalable, high-performance solutions that drive electrified infrastructure across industries. Open-platform, modular systems ensure efficient power distribution, secure system management, and seamless connectivity. As industries electrify to meet the demands of a more connected world, nVent enables customers to future-proof their operations while maintaining the highest standards of protection and performance.

Along with other nVent brands, nVent SCHROFF's offerings help customers adapt to the increasing electrification demands, enabling them to operate efficiently and securely while meeting the challenges of tomorrow.

ADDITIONAL INFORMATION:

- Electrification-Ready Systems: nVent solutions are designed to support the increased demand for electrified systems, ensuring seamless power distribution and system connectivity across industries.
- Modular and Scalable: With flexible, open-platform designs, nVent systems can easily adapt to growing electrification needs, ensuring long-term value and easy upgrades.
- Enhanced Power Management: Our systems provide superior cooling and power management, safeguarding critical infrastructure as power demands increase.
- Industry Compliance: nVent ensures that all systems are fully compliant with industry standards (e.g., PICMG, VITA), providing reliability and peace of mind in highly regulated sectors.
 - **End-to-End Support:** From design to deployment, nVent offers expert support and custom solutions to ensure your systems are optimized for the electrified future.

nVent.com





Our powerful portfolio of brands:

CADDY ERICO HOFFMAN ILSCO RAYCHEM SCHROFF