



LINECARD | PORTFOLIO

Distribution – Development – Production



Branch office North in **Ahrensburg**



NEUMÜLLER
ELEKTRONIK GMBH

TOGETHER, WE LAY THE FOUNDATION FOR
SMART SOLUTIONS OF TOMORROW—

driven by innovation, strong partnerships, and a clear
vision for the future of electronics distribution.



Headquarter in **Weisendorf**

Family-owned company with fast decision-making

For more than 70 years, Neumüller Elektronik GmbH has stood for technical expertise, tailored solutions, and close customer relationships. As a family-owned company, we combine in-depth specialist knowledge with a clear commitment: to develop solutions that not only perform reliably but also create lasting value and support our customers over the long term.

Our strength lies in combining deep product expertise with a holistic understanding of complex systems and an uncompromising commitment to quality throughout every stage of a project. From the initial concept and technical design to final implementation, we support our customers with reliability, practical expertise, and a solution-oriented approach. Working closely with renowned manufacturers and as a globally connected partner, we provide direct access to innovative technologies—carefully tailored to individual requirements and industrial challenges.

Strong local roots, nationwide presence

With locations across Germany, we stay close to our customers and respond quickly, flexibly, and effectively to changing requirements. This proximity enables us to identify needs at an early stage and implement solutions efficiently. We are committed to long-term partnerships, trusted collaboration, and sustainable growth rather than short-term success.

The result is solutions that deliver value today and remain reliable tomorrow—built on experience, commitment, and the conviction that lasting success is always achieved together and founded on mutual trust.

Electronics solutions with depth

Successfully serving the market since 1952

We are your design-in distributor for electronic components and systems, offering comprehensive solution expertise. Since 1952, we have built our reputation on extensive product knowledge, technical expertise, and decades of project experience—the foundation for well-engineered solutions.

As a market- and innovation-driven distributor with more than 70 years of experience, we are among the leading design-in distributors of electronic components and systems for the industrial and lighting sectors.

Our headquarters in Weisendorf, our branch office in Ahrensburg, and sales offices in Berlin, Munich, and Dortmund ensure close customer support and enable us to respond quickly and flexibly to changing market demands.



*With locations across Germany, we ensure close **customer support** and respond quickly and flexibly to changing market demands.*



*As a globally connected company, we work exclusively with **renowned** and **leading manufacturers** worldwide.*



Tailored solutions, personalized consulting, and a team with fresh perspectives are what set us apart.

INDUSTRY EXPERTISE FROM A TO Z

Alongside our specialized product portfolio, we offer in-depth industry expertise that enables us to provide outstanding product support. From A for automation technology to Z for centrally controlled building lighting, our customers benefit from comprehensive technical know-how across a wide range of applications.

Our experts look beyond conventional approaches, developing alternative solutions whenever they add value to a project.

The trust of our customers is both our benchmark and our motivation. Through personalized consulting and targeted solutions, we deliver results that perform reliably and are precisely tailored to each customer's specific requirements.

WHY WE ARE
THE BEST

Professional expertise with structure

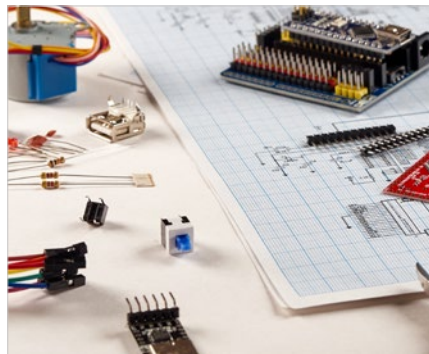
Distribution – Development – Production

We build our success on a clear strategy, well-founded decisions, and trusted partners who support us every step of the way. Today, our business focuses on three core areas that define our portfolio and deliver real added value to our customers.



DISTRIBUTION

We offer a comprehensive portfolio of standard products, ranging from proven classics to the latest innovations. Through intelligent logistics, structured inventory management, and close coordination with our suppliers, we ensure our customers receive exactly what they need. This allows us to combine reliability with flexibility while delivering solutions that create real value. Every order is delivered on time, efficiently, and precisely aligned with our customers' scheduling requirements.



DEVELOPMENT

When a standard product is not the right fit, we develop tailored solutions based on technical expertise and innovative thinking, precisely engineered for the intended application. We support the entire process—from the initial concept and prototype development to the finished solution—ensuring that every module performs reliably and integrates seamlessly into existing systems. Throughout the process, we consider individual requirements to ensure every solution is optimally matched to our customers' needs.



PRODUCTION

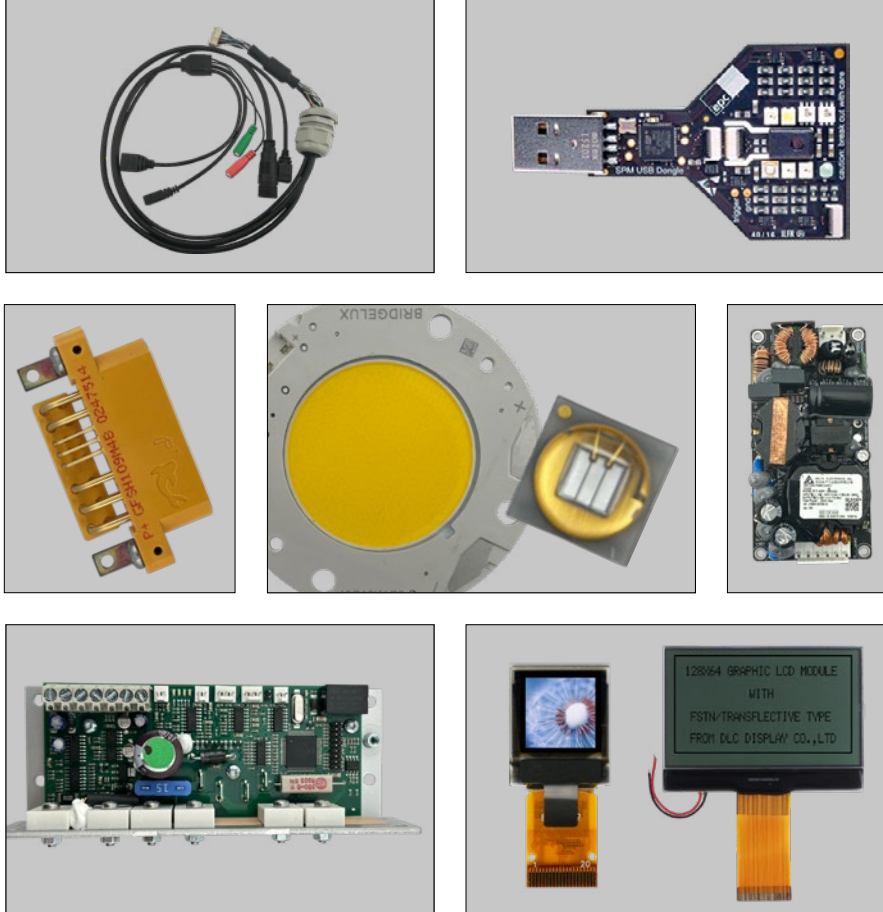
Using state-of-the-art technology and the highest quality standards, we manufacture custom LED modules tailored to your exact requirements. From manual soldering, module assembly, and cable harness production to SMD assembly and final product manufacturing, we provide a comprehensive range of production services. Every stage of the manufacturing process is designed to deliver customized solutions efficiently and with the utmost precision. Our quality assurance team ensures that every unit performs reliably in its intended application.

Long-term employees are no longer something to be taken for granted. That makes it all the more remarkable when people choose to stay with the same company for many years.

At Neumüller Elektronik, many employees have been with the company for 10, 15, 20, or even more than 25 years—a clear reflection of stability, experience, and a strong corporate culture. Trust, reliability, and a spirit of partnership form the foundation of every relationship, whether with customers, manufacturers, or within our own teams. Together, we overcome challenges, celebrate achievements, and continue to reach new milestones.

As a family-owned company with high standards for quality and customer satisfaction, our employees are at the heart of everything we do.

We actively foster team spirit through shared events, company sports activities, and regular training opportunities. These values define Neumüller Elektronik and make us a reliable, trusted, and strong partner.

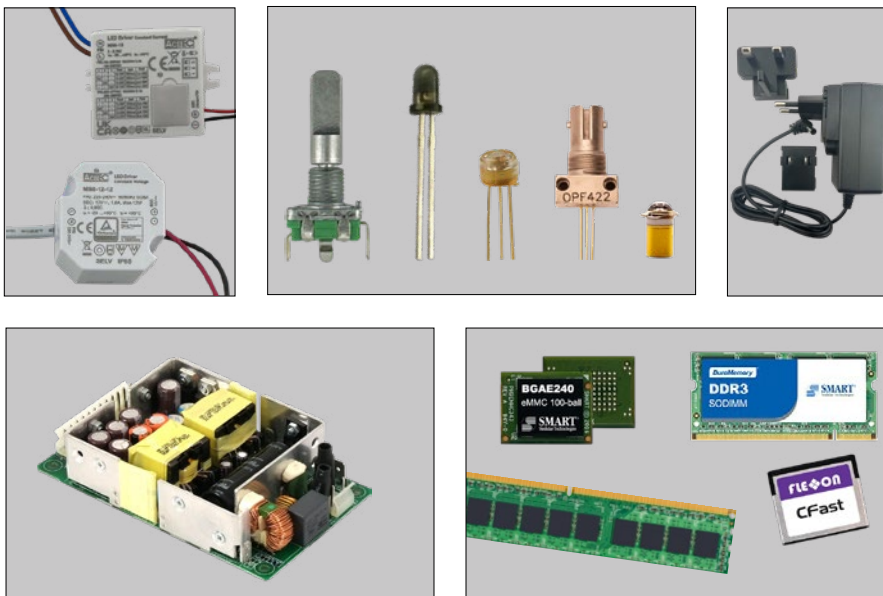


Understanding components

Selecting the right solutions

Finding the right component starts with the right guidance, a clear view of the market, and well-informed decisions. Many factors determine which components are technically suitable, economically viable, and available over the long term.

With extensive experience, in-depth market knowledge, and broad technological expertise, we help our customers identify the right components from a wide range of available options. On the following pages, you will find an overview of our distribution portfolio—the foundation for reliable, future-ready, and high-performance product solutions.



DISTRIBUTION

STING
OPTICS

Bi technologies
a  Electronics company

BIVAR

brandner
LEISTUNGSELEKTRONIK

 **DELTA**

DIGISOUND®

EDACPOWER

ATIC
OLC

FLE[◇]on®

FRAEN®
CORPORATION

FRIWO

SOCOM
COMPONENTS

KHATOD®
LENSES FOR POWER LED

KODENSHI

LEDiL

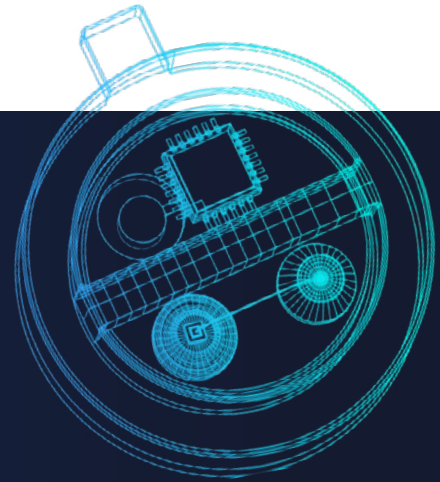
Transparency in the market

Confidence in every choice

As an authorized distributor for leading electronics manufacturers, we offer a carefully selected portfolio of high-quality electronic components and systems.

With direct access to technology, engineering expertise, and manufacturer know-how, we provide exactly the components your application requires.

Driven by a market-focused and innovation-oriented approach, we deliver more than just the right products. We also support you with in-depth design-in expertise and technical guidance across a wide range of industries and applications.



Optoelectronics

One of the industry's broadest product portfolios

The combination of optics and semiconductor technology includes products and technologies for converting data and energy into light—and light back into data and energy. Our strength lies in balancing high-quality standard products with the development of tailored solutions designed to meet specific application requirements.

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DISPLAYS

TFT	Monochrom/Graphik LCD	OLED
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Standard and custom display solutions.

PHOTODETECTORS

IC-Photodetectors	Fiber-Optik (Receiver)	Fotodioden
Photodiode Arrays	Phototransistors	Foto-Darlington
ToF-Sensors	Line Imagers	

A wide range of housing options available, including hermetically sealed designs.

FIBER OPTICS

Transmitter (LED VCSEL)	Receiver (PIN TIA-PIN)
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Individual components or available in ST or SMA receptacles.

LIGHT PIPES

Press-Fit	PCB	Flexible
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Mastering complex layouts and long distances—bringing light wherever it is needed.

OPTICAL SWITCHES

Slotted Optical Switches	Flag Switches	Reflective Opto Switches
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Contactless and fast detection of movements and positions.

VISIBLE LEDs

White	Colored	Multicolor
COB	Wired (THT)	Full spectrum
High-Power	Mid-Power	Low-Power
WICOP	Acrich	

LEDs offering the highest levels of functionality and reliability.

TOF (TIME-OF-FLIGHT)

Sensors	Cameras	Evaluation Kits
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High-performance and cost-efficient time-of-flight components and systems.

UV-TECHNOLOGIE

UV-LEDs			UV-LED Modules		
SMD		COB		THT	
Spectral range from 185 nm to 405 nm UV-A, UV-B, UV-C.					

FUTHER COMPONENTS

Optocouplers	optical Filters	VCSEL
IR-LEDs		

Standard or custom-designed components, including special selections.





LED lighting

A diverse product portfolio
for the LED lighting industry

We distribute only products that offer the highest levels of functionality, performance, and reliability. From the initial concept and high-quality lighting solutions to series production: you define the requirements—we deliver the perfectly tailored solutions.

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LEDs

White	Colored	MehrColored
COB	Wired (THT)	Full spectrum
High-Power	Mid-Power	Low-Power
WICOP	Acrich	

LEDs offering the highest levels of functionality and reliability.

LED-OPTIKEN

LED Lenses	LED Reflectors	LED Optic Accessories
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Single and multiple optics in various shapes and diameters.

LED POWER SUPPLIES

Drivers	Controller	Accessories
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Constant current, constant voltage, and CV+CC combined in a single device.

LED TREIBER ICs

Lighting Driver ICs Display Driver ICs

Solutions for LED displays, backlighting, and lighting applications.

LED-SYSTEME

LED strips LED modules

Standard and custom LED systems.

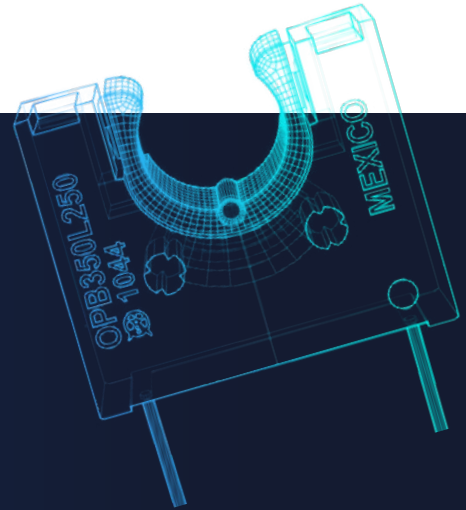
UV-LEDs

SMD COB THT

UV-LED modules

Significantly more efficient than conventional UV light sources.





Sensors

Highest levels of quality, reliability, functionality, and performance

Sensors that deliver outstanding quality, reliability, and performance. We offer a wide range of optical sensors as well as encoders, Hall sensors, position, liquid, temperature, and pressure sensors. If required, we develop customized products and solutions together with you.

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ENCODERS

Encoders

In addition to standard products, individual encoder solutions are also available.

HALL-EFFEKT-SENSORS

Bi-Polar latching Slotted Switch Unipolar non-latching

Hermetically sealed sensors for maximum reliability, functionality, and performance.

FLUID SENSORS

with Design-Kit with cable PCB mounting

Suitable for different tube diameters; contactless detection.

OPTICAL SENSORS

Color sensors	Fiber Optik (Receiver)	Photodarlington Transistors
Photodiodes	Photodiode Arrays	Phototransistors
Slotted Optical Switches	IC-Photodetektors	Flag Switches
Reflective Opto Switches	Line Imagers	

Available in 3 mm, 5 mm, 0805, and 1206 packages, TO-18, TO-48, and Pill Pak.

POSITION SENSORS

Linear Drehung

Precise and reliable measurement—whether linear or rotary.

TEMPERATURE SENSORS

Thermal switches Thermal fuses Thermostats

Precision thermostats Bimetal switches

Designed to ensure safe operation and extended service life.

TOF (Time-of-Flight)

Sensors Cameras Evaluation Kits

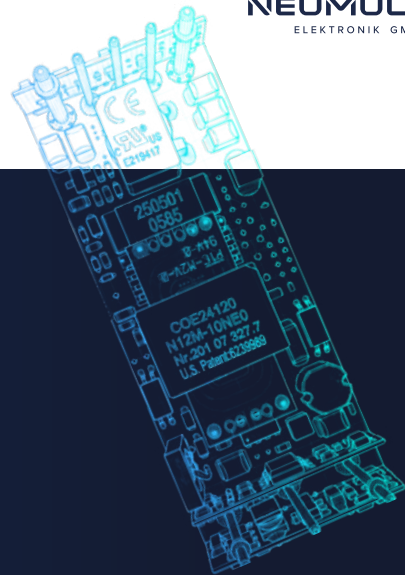
High performance combined with cost efficiency.

SYSTEM COMPONENTS

Output drivers Photodiode Amplifiers

A broad range of specialized optoelectronic components.





Power supplies

Maximum reliability and durability
for the highest availability

Robust power supply solutions that deliver outstanding quality and reliability across a wide range of industries. With high durability, efficiency, and international certifications, we offer both standardized and customized solutions.

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LED POWER SUPPLIESEN

Driver	Controller	Accessories
Constant current, constant voltage, or CV+CC combined in a single device.		

AC/DC NETZTEILE

AC Adapters	Build-In	DIN Rail
Industrial	medical	modular
USV		
Optimized for applications in industrial, medical, household, and IT environments.		

DC/DC CONVERTERS

Chassis	Print
More than just simple voltage conversion.	

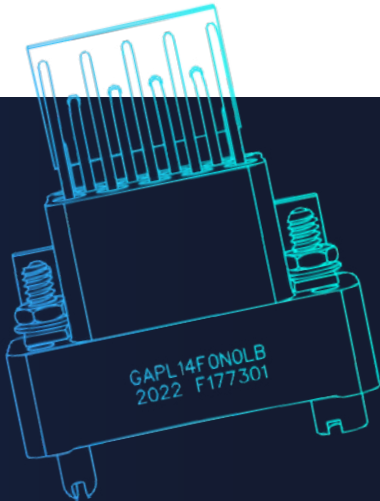
BATTERY PACKS

Lithium-Ion (Li-Ion)	Lithium-Polymer (Li-Poly)	Nickel-Metal-Hydrid (NiMH)
Nickel-Cadmium (NiCd)	Sealed Lead-Acid Batteries	Lithium Manganese Dioxide Batteries
Lithium Sulfur Dioxide Batteries	Lithium Thionyl Chloride Batteries	Alkaline Batteries
Customized battery solutions for a wide range of requirements.		



Connectors

Standard and customized solutions



We offer a wide range of connectors, including circular, rectangular, D-SUB, USB, RJ45, and many other types. In addition, we provide matching cables and accessories such as crimp contacts, crimping tools, and processing equipment for your applications.

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BOARD TO BOARD

Shielded / Unshielded	Sockets	Pin headers
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For signal and data transmission, available with SMD, THT, and plug-in connections.

D-SUB

Press-fit contacts	Crimp contacts	Solder contacts
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Solder versions with plastic and metal housings.

FFC/FPC

Right-angle	Straight	Side entry
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Flat Flex Cable (FFC), Flexible Printed Circuit (FPC), and film connectors.

FIBER OPTIC

Precision adapters ensure reliable integration of fiber optic connections

HDMI

Standard Type A or Micro Type D.

MODULAR JACK

Outstanding electrical performance up to 18 GHz.
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RECTANGULAR

Mini-Rectangular	Rugged Rack & Panel	Slim Power
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Stackable connectors.

POWER CONNECTORS

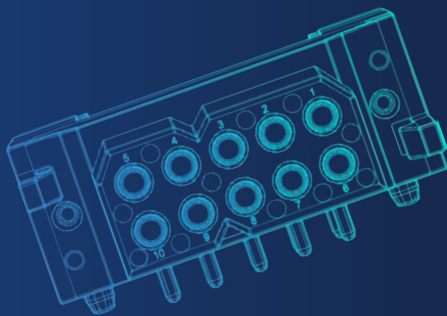
AdvancedTCA	Autoshunt	Compact Power
Dragonfly	Eclipse	Goldfish
Great Golden	Infinity	Panther
Serie CP	Safety Shroud	Scorpion
Power Connection System		

Optimized efficiency for a wide range of applications.

RJ45

Cat5e	Cat6
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Modular 8P8C connectors with a maximum transmission frequency of 500 MHz.



CIRCULAR CONNECTORS

Baby King Cobra	Circle Hex	Front Runner
Talon Mini		
Highly reliable for mission-critical applications		

SENSOR CONNECTORS

A Code	B Code	D Code
F Key	X Code	
M8/M12 connectors with various pin configurations and IEC-compliant products.		

WIRE TO BOARD

Board In Terminal	Crimpgehäuse	Stiftleiste
1.00 mm to 3.96 mm as IDC (insulation displacement) and crimp versions.		

THERMOCOUPLE

Standard-Dichte D-Subminiatur	High Density D-Subminiatur	Kombination D-Subminiatur
Wasserdichte D-Subminiatur	Kreisförmig	High Density Rectangular
Specifically designed for temperature measurement cables.		

USB CONNECTORS

Type-A	Type-B	Type-C
Mini USB	USB 3.0	
Nickel or gold plated; available in straight or 90° angled versions; IP67 rated.		

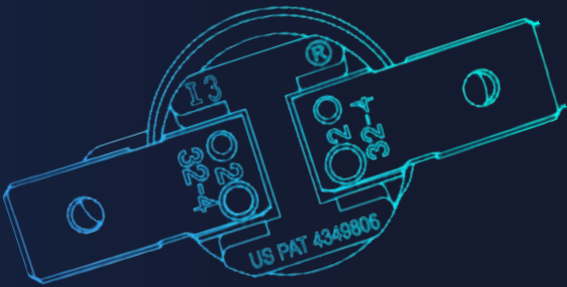
WATERPROOF CONNECTORS

IP D-Sub	IP HDMI	IP Power
IP RJ45	IP Round	IP Sensor
IP USB		
Easy application and maintenance in the field—robust and reliable.		



Circuit breakers

A powerful product portfolio



Our high-quality circuit breaker portfolio includes thermal as well as hydraulic-magnetic circuit breakers. Through close cooperation with the manufacturer, we are able to identify your specific technical requirements and provide the right solution—which can also be customized to your needs.

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CIRCUIT BREAKERS

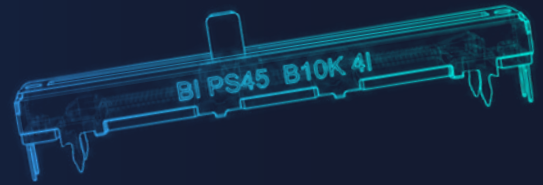
Aircraft	Simulator	Commercial Thermal
Surface Mount Thermal	Precision Thermal	Simulators
Overload Sensing Controller		
High resistance and optional temperature compensation.		

THERMAL SWITCHES

Thermal switches	Thermal switch sensors	Thermostat probes
Maximum safety for demanding applications.		

Passive components

Highest standards for precision, reliability, and durability



Whether for industrial or commercial projects, we provide the ideal components to enhance your electronic circuits and reduce interference.

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POTENTIOMETERS

Rotary potentiometers Slide potentiometers

High reliability and precision, even in harsh environments.

TRIMMERS

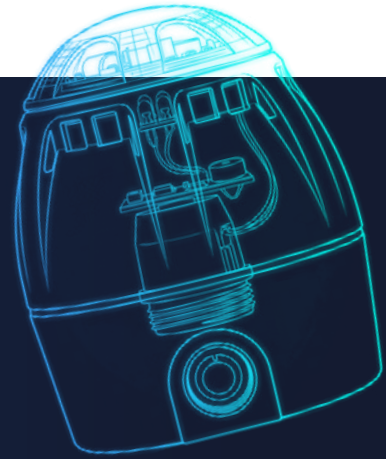
Multi-Turn Open-Turn Single-Turn

Circuit adaptation for all types of electronic devices.

ENCODERS

Standard and customized encoders for perfectly tailored solutions.





Signal technology

A wide range of high-quality signaling solutions

High-quality signaling technology from brands such as Compro, Digisound, Kepo, and Neumüller, including buzzers, horns, sirens, signal and warning lights, as well as combined signal devices. Our portfolio is complemented by acoustic components such as piezo elements and speakers.

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ACOUSTIC COMPONENTS

Speakers

A broad range of acoustic components meeting the highest quality standards.

SOUNDERS

Buzzer

Sirens

Transducer

When visual signaling needs to be supported by sounds or tone sequences.

BEACONS

Strobe Beacons

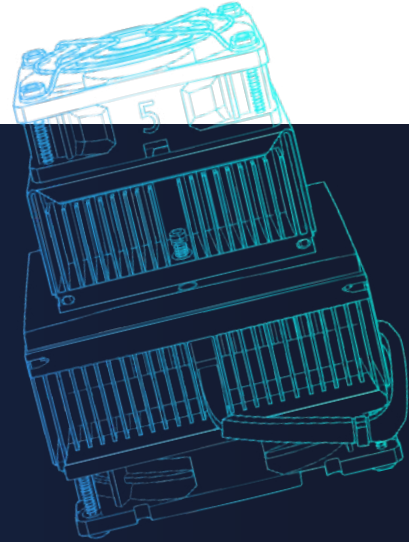
Rotating Beacons

Signal Lamps

Signal Towers

Hazards and alarm conditions are reliably indicated at all times.





Thermal management

Always a hot topic

High-quality thermal management solutions for demanding applications. Our comprehensive portfolio ranges from Peltier elements and Peltier coolers to liquid cooling systems and temperature controllers, as well as DC, AC, and EC fans and blowers.

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LIQUID COOLING SYSTEMS

Liquid-to-Air

Liquid-to-Liquid

For stable temperatures—above, below, or at ambient temperature.

PELTIER MODULES

Ceramic plate coolers

Premium coolers

Micro thermoelectric

With cooling capacities of up to 322 W and a wide range of design options.

PELTIER COOLER

Air-to-Air

Direct-to-Air

Direct-to-Liquid

Liquid-to-Air

Liquid-to-Liquid

Precise temperature control with cooling capacities of up to 480 W.

TEMPERATUR CONTROLLERS

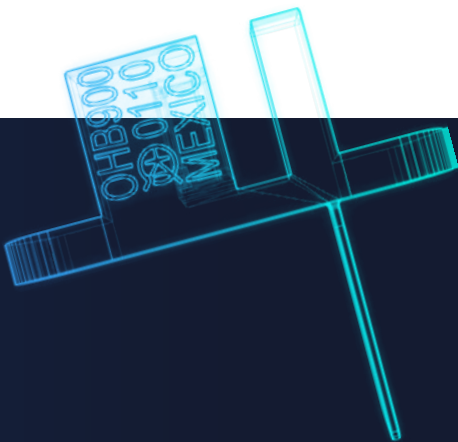
Bi-Directional

Proportional-Integral-
Derivate (PID)

Single Directional

Various cooling and heating modes in closed-loop systems.





Hi-Rel

Solutions that make the difference

High-quality components and precision measurement equipment for aerospace, avionics, medical, and military applications—100% tested according to MIL-PRF-19500 and other relevant standards. Robust components with outstanding reliability, long-term availability, and complete documentation make them ideal for demanding projects with the highest quality requirements.

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OPTOELECTRONIC COMPONENTS

Bipolar transistors	Diodes/Rectifiers	Phototransistors
Slotted optical switches	Hall effect sensors	IC photodetectors (logic output)
IR-LEDs	MOSFET transistors	Optocouplers
Reflective opto switches		
100% tested and inspected (screening) according to all industry standards.		

CIRCUIT BREAKERS

Circuit breakers	Thermal switches	Precision switches
High resistance and optional temperature compensation.		

CONNECTORS

D-Sub	Power	Rectangular
Circular		
Extremely low failure rates and outstanding long-term reliability.		

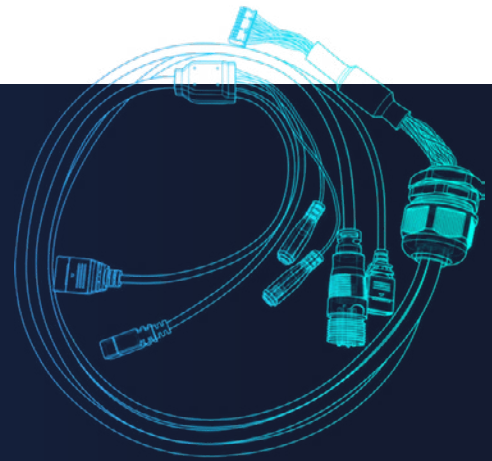
MEMORY & STORAGE

NVMe SSD	SATA SSDs
High data integrity, low bit error rates, and radiation resistance.	



Cable assembly

Development and manufacturing



Standardized and customized cable assemblies. We develop and manufacture single wires, ribbon cables, FFC cables, HDMI cables, cable harnesses, power cables, and other interconnect solutions for industrial, automotive, medical technology, and equipment manufacturing applications. Ideal for series projects with defined lengths, connectors, testing requirements, and documentation.

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AUTOMOTIVE

Pre-assembled cables are processed into complex cable harnesses.

SINGLE WIRES

Crimping/Crimping	Tinning/Tinning	Crimping/Tinning
Double crimp	Crimping/Assembly (Flat receptacle)	

Multi-core cables, twin cables, and ribbon cables available.

FFC CABLES

Gold-plated contacts, folded, shielded with or without shield bonding, and many other options.

RIBBON CABLES

Common pitches, cut to the required length, with PCB connectors.

HDMI CABLES

90° Winkel Gerade

HDMI standards including 4K, 8K, and HDR, as well as HDCP compliance.

HOTMELT

Sealed and protected against unwanted or improper access.

CABLE HARNESSES

Complex cable harnesses with or without overmolding according to specifications.

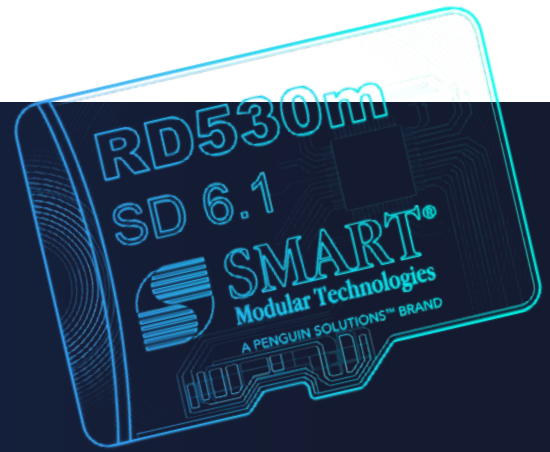
POWER CABLES

Euro plug	Schuko plug IP44	Contour plug IP44
Var. country-specific plugs	Hospital-Grade	IEC C14 connector
IEC C13 / C17 socket	IEC C7 / C5 connector	IEC C19 connector
Extension cables	Strain relief bushings	With switch

VDE certified solutions for industrial and medical applications.

Memory & Storage

High-quality, efficient, and reliable



Reliable memory solutions. From memory chips and modules to memory cards and storage drives, we offer a comprehensive portfolio of high-quality, efficient, and reliable storage solutions. Find the right memory solution for your project.

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DDR RAM MODULES

DDR3	DDR4	DDR5
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Quality, durability, and reliability.

EMBEDDED MEMORY

eMMC	eSD	μSSD
eUSB		

Find the right embedded memory solution with us.

MEMORY CARDS

CF Cards	SD Cards	MicroSD Cards
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Designed for industrial environments with reliable operation from -40°C to +85°C.

MEMORY ICs

SRAM	SDRAM	DDR1 SDRAM
DDR2 SDRAM	DDR3 SDRAM	DDR4 SDRAM
Flash Memory		

A broad range of high-quality memory ICs.

SSDs

NVMe	SATA	1.8 Zoll
2.5 Zoll	M.2	mSATA
U.2	E1.S	Half Slim
AIC	SATA DOM	

Various form factors, interface types, capacities, and memory technologies.

USB PEN DRIVES

3D pSLC	3D TLC	SLC
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For industrial and medical applications. Available with USB 2.0 and USB 3.1.

LEGACY

PATA Flash Modules

Compatible with 40/44-pin IDE/ATA standard interfaces.



Expertise that thinks ahead

Added value beyond the component

CONSULTING AND ANALYSIS

Professional consulting and technical expertise

During the early stages of a project, we help you identify the right components and technologies.

Early market and trend monitoring

Continuous trend scouting and technology roadmaps support long-term product strategies and highlight emerging technologies at an early stage.

Requirements analysis and feasibility assessment

We evaluate the technical and economic requirements of your project and identify suitable alternatives or optimization opportunities.

Support in component and technology selection

Our goal is to achieve the optimal balance between performance, availability, cost efficiency, and future readiness.

Market, price, and availability analysis

Well-founded analyses help secure the supply chain and enable reliable planning despite price fluctuations or product discontinuations.

Technology and environmental compliance consulting

We support you with ISO, REACH, RoHS, CE, and FCC requirements to minimize regulatory risks at an early stage.

Support from technical product specialists

Experienced specialists provide expert guidance throughout all project phases—by phone, email, video call, or on-site.

SELECTION AND QUALITY ASSURANCE

Targeted selection processes minimize natural variations in parameters (e.g., LED color coordinates or sensor limits) and ensure consistent quality across all batches.

CERTIFICATION AND APPROVAL SUPPORT

We support you with standards and regulations, shorten development cycles, and accelerate time-to-market.

LIFECYCLE MANAGEMENT AND AFTER-MARKET SUPPORT

From product launch to end-of-life: EOL management, last-time-buy strategies, and support with replacement or alternative solutions ensure long-term supply security.

DELIVERY & LOGISTICS

Efficient supply chains, short routes, and maximum component availability secure your production.

Framework agreements & short delivery times:

Stable conditions, reliable availability, and short delivery times provide long-term planning security and help reduce supply bottlenecks.

Flexible logistics solutions:

Kanban, consignment stock, min-max systems, safety stock, and buffer inventory ensure demand-based supply, minimize inventory risks, and increase the flexibility of your supply chain.

C-parts management & continuous replenishment

Structured C-parts management reduces administrative effort, keeps processes lean, maintains cost transparency, and ensures the continuous supply of standardized components.

Fast response times in the event of supply shortages:

When supply challenges arise, we provide suitable alternatives, sourcing strategies, and logistics solutions at short notice to minimize downtime and ensure delivery capability.



Your gateway to leading technologies

neumueller.com

Solutions

for a wide range of markets and industries



LED LIGHTING

Light is more than brightness—it is a combination of functionality, safety, and design. With technical consulting and a strong network of partners, we develop durable, energy-efficient, and future-ready lighting solutions. From signal and status indicators to specialized display backlighting, we cover a wide range of applications.

Whether for industrial applications, architectural lighting, medical lighting, or smart IoT lighting systems: modern LED technology combines efficiency with intelligence.

SECURITY & MONITORING



Security systems must operate reliably—at all times and without compromise. Whether video surveillance, access control, fire and hazard detection systems, or perimeter protection: modern security infrastructures rely on powerful and connected electronics. Our portfolio is designed for long-term operation and energy efficiency.

CONSUMER & HOME APPLIANCES

Connected devices, intuitive user interfaces, and energy-efficient systems define modern consumer and household applications. From smart home solutions and household robots to wearables and consumer electronics, requirements for miniaturization, design integration, and cost efficiency continue to increase.



INDUSTRY & AUTOMATION

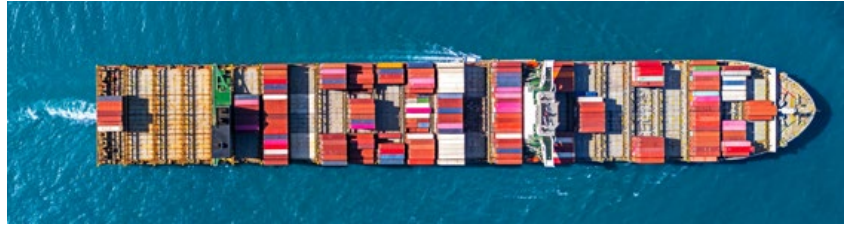
We understand industrial applications not only from a technical perspective but also from an economic one: availability, service life, and long-term sourcing strategies are at the center of our approach. Together, we create robust and future-proof solutions for your Smart Factory. Whether Industry 4.0, robotics, production lines, or process automation—modern manufacturing environments place the highest demands on reliability, scalability, and the integration depth of electronic components. Neumüller Elektronik supports you with a comprehensive portfolio of power supplies, sensors, connectivity solutions, LED technologies, control elements, and customized assemblies—tailored to machine controls, power distribution systems, and plant monitoring solutions.





AEROSPACE & DEFENSE

For avionics systems, satellite communication, radar and navigation solutions, or military vehicles, we provide robust electronic components and individually tailored solutions. We support you with technical expertise for mission-critical applications and sourcing management that ensures reliable supply even for long-term projects.



MARINE, RAIL & TRANSPORTATION

Today, mobility means more than movement—it stands for efficiency, safety, and intelligent connectivity. Whether in rail transportation, maritime applications, or specialized vehicles: electronic systems must operate reliably under demanding environmental conditions. From vehicle and signal lighting, onboard power systems, and energy distribution to cockpit displays, diagnostic systems, and access solutions—we provide components and customized systems for modern transportation concepts. Mechanical resilience, temperature resistance, and long-term spare parts availability are at the heart of our approach—for durable and seamlessly integrated solutions.



MEDICAL & LIFE SCIENCES

In medical technology and life science industries, technological innovation meets strict regulatory requirements and the highest safety standards. Whether diagnostic devices, imaging systems, patient monitoring, or surgical equipment—we provide high-quality electronic components and customized solutions for demanding medical applications. From certified power supplies and medical lighting to displays, sensors, connectivity solutions, and thermal protection: our portfolio is designed for long-term availability and standards-compliant integration. With technical expertise and sustainable supply management, we support you from development through series production—reliably, transparently, and as a trusted partner.



MEASUREMENT TECHNOLOGY

Measurement means understanding. It requires maximum accuracy, stability, and repeatability. We support manufacturers with precise power supplies, sensors, displays and control elements, connectivity solutions, and customized assemblies for demanding measurement and calibration systems. With our technical expertise, we help ensure that your measurement systems deliver reliable results—today and in the future.



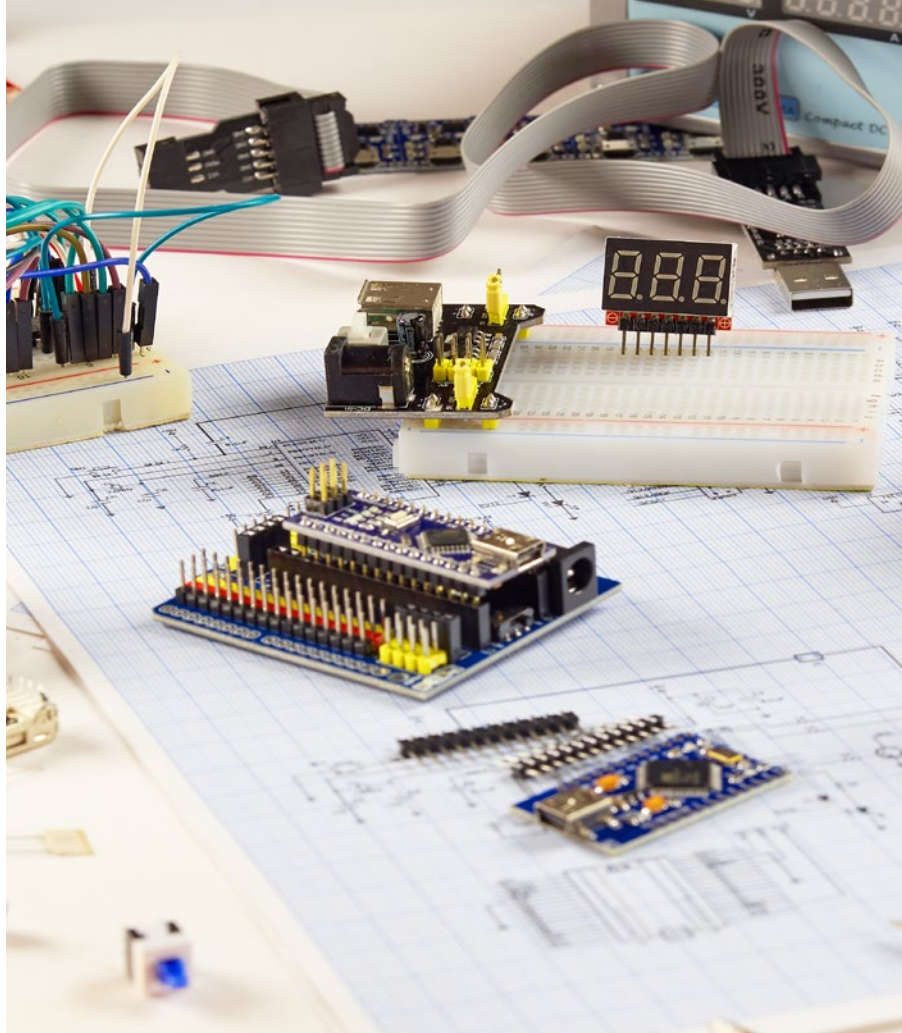
IT & COMMUNICATION

Data is the foundation of modern value creation—its secure, fast, and stable transmission is essential. Neumüller Elektronik offers a broad range of power supplies, connectivity solutions, optical data transmission technologies, cooling and sensor components, as well as customized assemblies for demanding IT and telecommunications applications. We combine technical expertise with sourcing competence and support you in building powerful and future-ready infrastructures.



[Ihr Zugang zu führenden Technologien](https://neumueller.com)

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Engineering Excellence

Perfectly combining electronics, mechanics, and thermal management

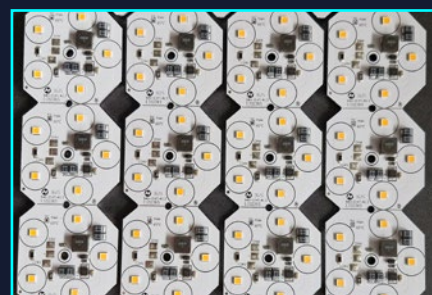
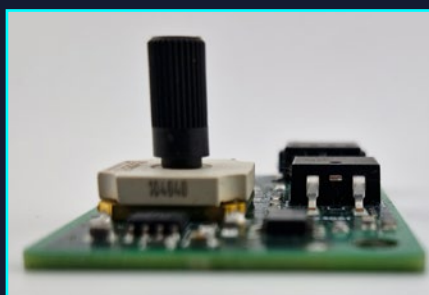
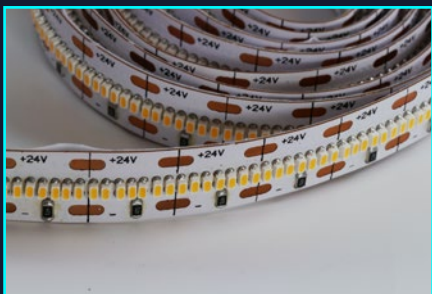
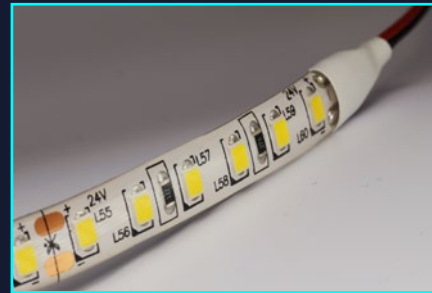
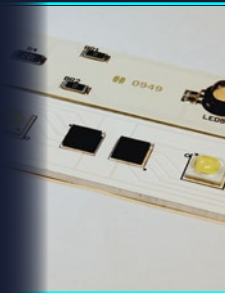
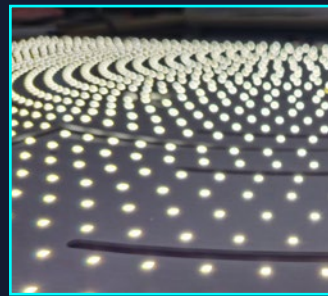
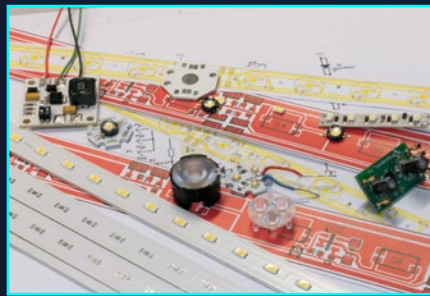
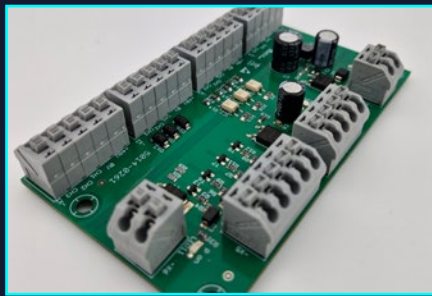
We modify components and systems precisely according to your requirements—from mechanical, electrical, and optical adaptations to the optimization of performance, efficiency, and form factor.

Based on proven technologies, we create cost-effective solutions that integrate seamlessly into existing system environments. We precisely coordinate interfaces, connectors, cooling concepts, and housings to ensure that electronics, mechanics, and thermal management work together perfectly.

Our expertise includes the development of customized electronic and control solutions for LED, power supply, and sensor systems. A particular focus lies on UV LED and LED modules, which are precisely tailored to specific applications and standards. We consider efficiency, lifetime, EMC, and thermal performance holistically—from design adaptations to complete new developments.

With our own development facilities and comprehensive prototyping infrastructure, we support projects as an end-to-end partner through to series production readiness. Simulations and proof-of-concepts enable early validation. Structured development phases and clearly defined responsibilities ensure transparency, short development cycles, and reliable time-to-market.

DEVELOPMENT



Precision down to the smallest detail

Seamless integration of components

Our development services include the seamless integration of customized interfaces, connectors, cooling concepts, and housings.

By precisely coordinating electronics, mechanics, and thermal management, we ensure that all components work together optimally and integrate smoothly into your existing systems

From targeted modifications to complete new developments

Well-engineered technical adaptations and customized solutions integrate precisely into your system environment, ensuring maximum functionality, efficiency, and operational reliability.

ADAPTATION OF EXISTING COMPONENTS

We modify components and systems specifically according to your requirements. Whether mechanical, electrical, or optical adaptations, or the optimization of performance and form factor: we create cost-effective solutions based on proven technologies—quickly and reliably.

ELECTRONICS & CONTROL SOLUTIONS

We develop control systems for demanding LED, power supply, and sensor applications. Our expertise ranges from circuit design and PCB layout to complete system integration. As an end-to-end partner, we support you from the initial concept through to series production readiness.

SYSTEM INTEGRATION & MECHANICS

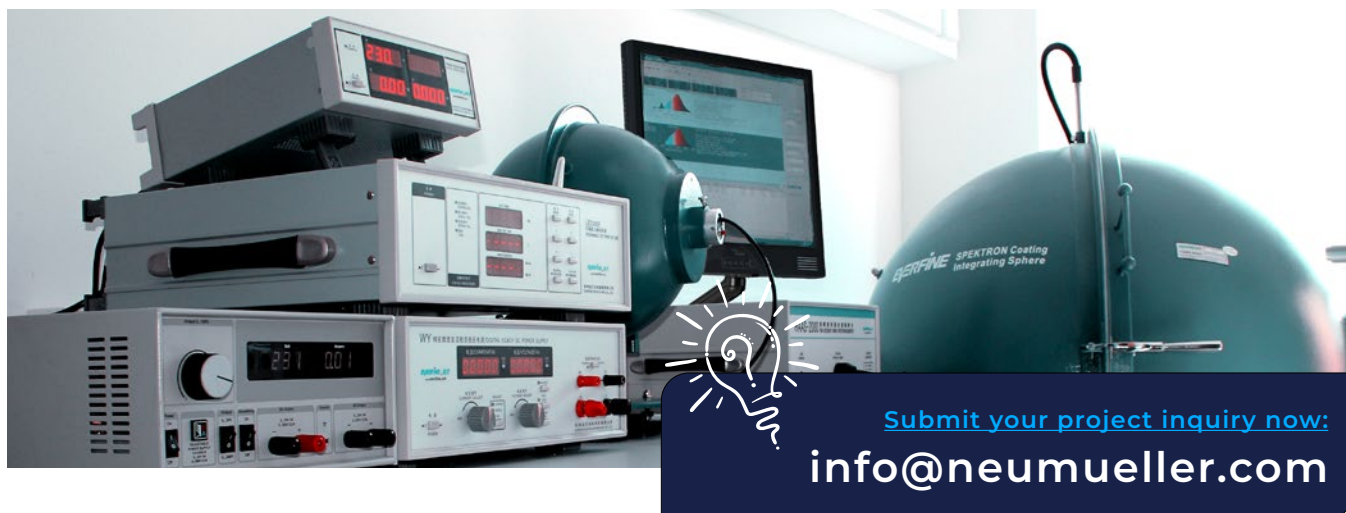
Our expertise includes the seamless integration of interfaces, connectors, cooling concepts, and housings. Through the precise coordination of electronics, mechanics, and thermal management, we ensure the optimal interaction of all components within your existing environment.

CUSTOMIZED LED & UV LED MODULES

We develop LED and UV LED modules precisely tailored to your application, environmental conditions, and applicable standards. We consider efficiency, lifetime, EMC, and thermal performance holistically—from design adaptations to complete new developments.

ACCELERATE YOUR PRODUCT DEVELOPMENT

Short development cycles and maximum reliability are our promise. Let us transform your challenge into a production-ready solution.



Submit your project inquiry now:
info@neumueller.com



Security through expertise

From proof-of-concept to series production

From simulation and prototyping to technical troubleshooting: with our own development facility and dedicated teams, we support your project through every critical phase.

PRACTICAL DEVELOPMENT & CLEAR STRUCTURES

Our work is closely connected to real-world requirements. In-house test setups and prototyping equipment enable early validation of functions, performance limits, and interfaces. Dedicated contacts and allocated resources ensure efficient support and rapid implementation.

PRECISE DEBUGGING & OPTIMIZATION

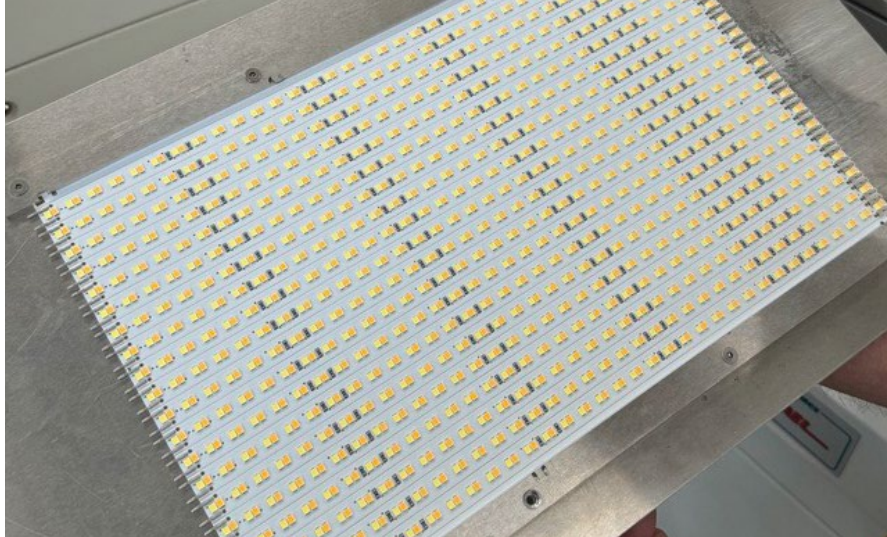
Our specialists provide comprehensive support—from analyzing critical measurement data and hardware and software debugging to optimizing EMC performance and thermal behavior. We quickly identify the root causes of issues and develop well-founded solutions for reliable time-to-market.

PROOF-OF-CONCEPT & PROTOTYPING

Through simulations and functional prototypes, we validate feasibility under realistic conditions. Structured project phases and consistent project management provide transparency at every stage and a reliable basis for decision-making on the path to series production.

ENGINEERING AT A GLANCE

- **Holistic development:**
Optimal synergy of electronics, mechanics, and thermal management.
- **UV- & LED-Expertise:**
Application-specific modules optimized for efficiency and lifetime.
- **End-to-End-partnership:**
Structured support from the initial concept through to series production.
- **Customized modification:**
Adaptation of existing systems according to your specific requirements.
- **In-House Prototyping:**
Rapid validation through dedicated test setups and simulations.
- **Reliable time-to-market**
Comprehensive debugging and EMC optimization for a smooth product launch.



Production facilities in Germany and Bulgaria

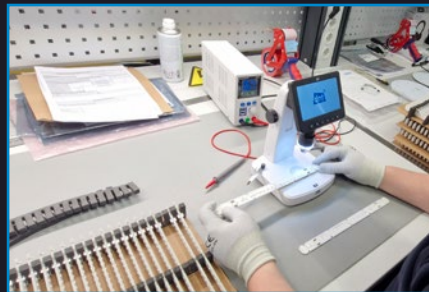
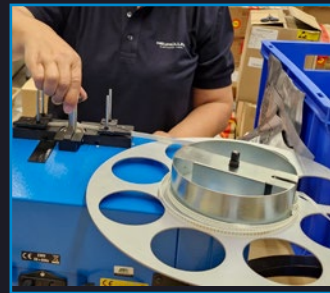
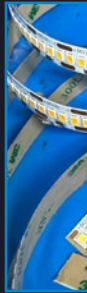
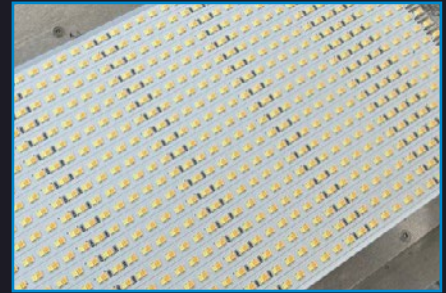
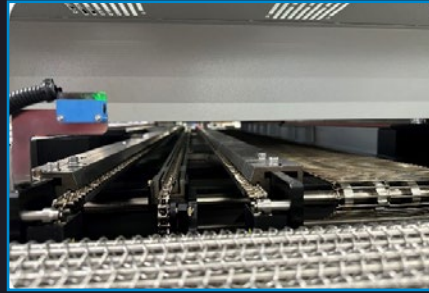
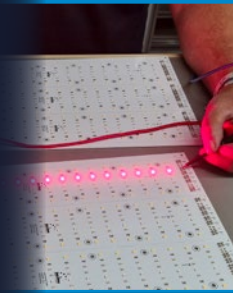
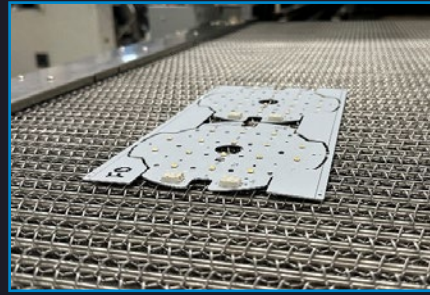
With our flexible production lines, we manufacture LED systems and modules according to your specific requirements and individual needs. Whether customized designs, special functionalities, or tailored adaptations—we offer a wide range of possibilities. Our production sites in Weisendorf (Germany) and Varna (Bulgaria) stand for the highest quality standards. In addition to SMD assembly, we also handle complete product finishing.

From precise manual soldering and module manufacturing to cable assembly and complex system integration—all from a single source.

A qualified team, short delivery times, and close cooperation with customers and suppliers ensure flexible, order-specific solutions for individual production volumes. In addition, we offer further processing options with various extras and ensure that all products can be supplied with the required certifications upon request.



PRODUCTION



Customized manufacturing solutions

Precisely, flexibly, and reliably implemented

We realize customized manufacturing solutions, including manual soldering, module production, cable assembly, assembly services, PCB processing, and final product manufacturing. In our production lines, we place the highest priority on precision and quality. We offer a comprehensive range of manufacturing services tailored to the specific requirements of our customers. Our production facilities utilize state-of-the-art technologies to ensure efficient and error-free manufacturing.

Manufacturing and quality assurance

Produktion/Fertigung Weisendorf

Our ESD-protected manufacturing combines modern equipment, precise processes, and consistent quality control. With powerful SMD placement systems, two separate production lines, and state-of-the-art reflow ovens, we manufacture customized production volumes efficiently and reliably.

Through continuous process monitoring, an exceptionally low reject rate, and double final inspection, we ensure that every assembly meets our high quality standards. In addition, our ESD-protected area provides reliable protection for sensitive electronic components.

Comprehensive testing and measurement procedures accompany the entire manufacturing process—from initial prototypes to series production.

These include:

Electrical testing

We inspect voltages, currents, and electrical connections to reliably ensure safety and compliance with applicable standards.

Visual inspections

Assembly, solder joints, and surfaces are visually evaluated to identify and eliminate manufacturing defects at an early stage.

Photometric measurements

For lighting applications, we precisely and reproducibly measure light output, spectral characteristics, and radiation patterns.

Mechanical testing

We test mounting, dimensional accuracy, and mechanical strength to ensure that your products perform reliably in real-world applications.



Quality assurance inspects LED modules and assemblies
for defects and ensures consistent product quality.



Inspection of the PCB under a **digital microscope**.



The **solder paste printer** applies solder paste precisely to the PCB, ensuring clean and reliable SMD solder joints.

Functional & continuity testing

All relevant functions and operating conditions are tested under defined conditions. In addition, we verify cables and signal paths for electrical continuity.

Documentation & traceability

All measurement data, test results, and serial numbers are systematically documented, ensuring complete traceability of every unit.

Qualifications & approvals

We support you with standards testing, certifications, and approval processes and provide the required technical documentation.

Customer-specific testing

In addition to standardized processes, we define project-specific tests and customized test protocols together with you—precisely tailored to your requirements.

This is how we create products that deliver outstanding technical performance, are documented in accordance with applicable standards, and provide reliable operation throughout their service life.



The **reflow oven** melts the solder paste and creates stable SMD solder connections.

LARGE PRODUCTION VOLUMES

Even within short lead times

Our manufacturing capabilities are designed for every production volume: from initial prototypes and small to medium series through to large-scale production. Thanks to modern equipment, efficient processes, and two independent production lines, we can reliably handle high quantities within short timeframes.

This structure allows us to flexibly scale production capacities and confidently meet both short-term requirements and long-term series projects. Through established processes and close coordination between all involved departments, we respond quickly to changes and implement projects on schedule with consistently high precision.

DESIGNED FOR DURABILITY

Long-lasting components. Made in Germany.

We use only high-quality electronic components sourced from leading manufacturers and meeting all relevant industry standards. This careful selection forms the foundation for the durability and reliability of our products.

Every component is carefully tested and selected according to the specific application to ensure consistently stable performance. Our SMD manufacturing is carried out in Germany, allowing us to guarantee short supply routes, precise processes, and the highest manufacturing standards. The result: products that not only deliver outstanding technical performance but also provide reliable operation over the long term.

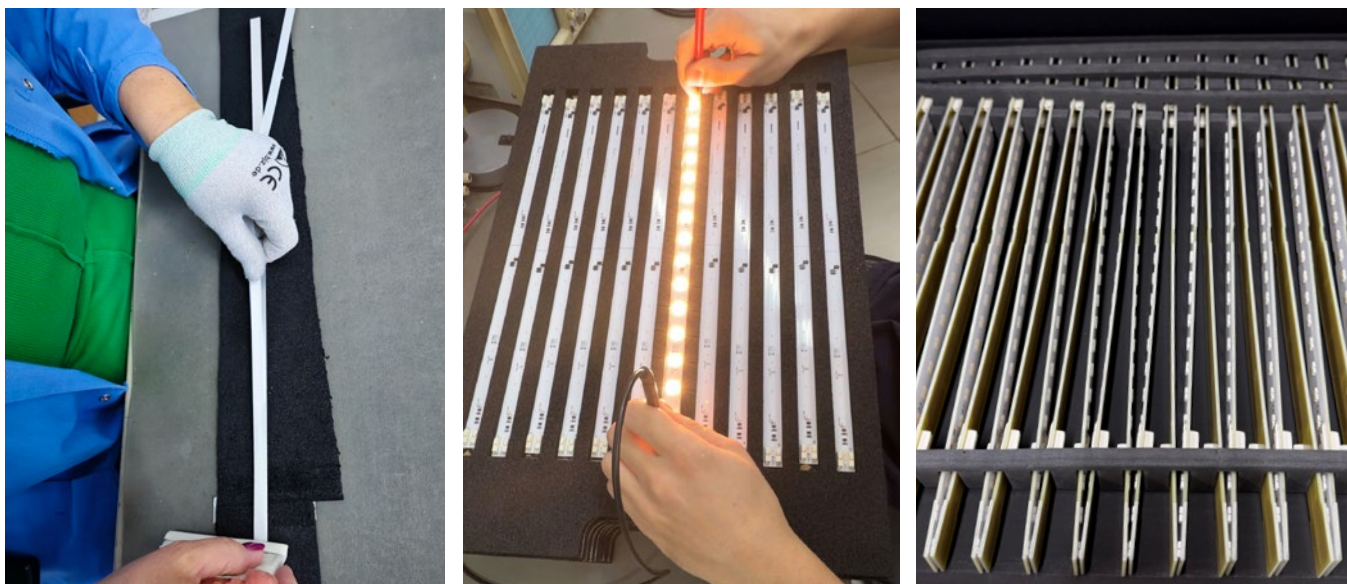
EFFICIENT LOGISTICS

Where speed meets reliability

A well-established logistics system and close coordination between purchasing, manufacturing, and shipping ensure short delivery times and smooth order processing. Our production is consistently organized according to customer requirements and enables emergency handling when speed is critical. This allows us to combine fast response times with absolute reliability.

NEUMÜLLER

PRODUCTION FOOD



LED modules are processed (adhesive application), tested, and then prepared for further processing or shipment.

Versatile manufacturing.

Precisely implemented.

Production Varna

Our production combines a wide range of manufacturing technologies and enables the realization of diverse assemblies and components. From manual soldering, module manufacturing, cable assembly, and mechanical assembly to PCB processing and final product manufacturing, we offer a comprehensive range of services precisely tailored to our customers' requirements. Every manufacturing stage is designed to efficiently deliver customized solutions with the highest level of care.

Direct coordination with customers and suppliers, combined with short internal communication paths, ensures clear processes and smooth workflows. The close cooperation of all involved departments creates a continuous production flow that enables precise implementation of complex projects while providing maximum transparency.

Our team has extensive experience across all relevant production steps. All work is carried out by qualified specialists who focus on every detail and apply a high level of technical precision. This ensures that every unit meets our quality standards and performs reliably in its intended application.

MANUAL SOLDERING

Highest quality standards



Our expertise in manual soldering ensures flawless and precise execution, even for complex requirements. We perform soldering work to the highest standards, delivering clean, reproducible results and reliable connections—from individual units to medium-sized series.

MODULE MANUFACTURING

Everything from a single source



Fully functional modules from a single source—optimally coordinated, tested, and ready for installation. We combine power supplies, PCBs, connectors, and cables into complete units that are tested, wired, and precisely assembled—for maximum reliability and immediate operational readiness.

CABLE ASSEMBLY

From simple to complex



Customized cable assemblies precisely manufactured according to customer requirements—by automated processes or skilled manual work. We produce everything from simple single wires to complex cable harnesses and specialized cable solutions. Even complex custom designs are manufactured with precision and consistently high quality.

PCB PROCESSING

Assemble, separate, test, package



To meet the highest quality requirements, we ensure clean and reliable further processing of printed circuit boards. This includes precise separation, controlled grinding, and professional bonding of optics—all from a single source and with maximum process reliability.

CONNECTIVITY SOLUTIONS

For reliable systems



Durable and secure connections form the foundation of reliable electrical systems. Our services include precise soldering and crimping processes, high-quality insulation displacement and screw connections, as well as robust compression connections—performed with the highest level of care and process reliability.

MARKING & IDENTIFICATION

Permanently readable and process-safe



Professional identification solutions ensure maximum transparency, traceability, and compliance with standards. We reliably mark cables, tubes, and connectors as well as labels and tags, while also using precise laser marking technology—for permanently readable and process-safe identification.



Precision
you can rely on
neumueller.com

- **Comprehensive manufacturing capabilities**
Manual soldering, module manufacturing, cable assembly, assembly, and complete product manufacturing from a single source.
- **Customized solutions**
Project-specific solutions for a wide range of assemblies and requirements.

- **Experienced specialists**
All production steps are carried out by qualified experts with a high level of precision.
- **Process reliability**
Stable processes, clear standards, and documented procedures for consistently reproducible results.



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