Alcom electronics

2021 Company presentation & Linecard

Specialism, knowledge and design-in expertise

GET TO KNOW US

About Alcom

Alcom electronics is the leading "technical distributor/stocking rep and manufacturers' representative" for Electronic Component Solutions, Wireless Embedded Connectivity & Sensors, Wireless & Industrial Controls Networking, Display & Touch, Led & Solid State Lighting, Power & EMC, Rugged Mobile Computing and Embedded Systems, AI & Edge computing in the Benelux. We combine multiple product groups and matching technologies fitting the end application of our customers.

Since its inception in 1980 we sell high quality products with all round services based on technical competence and know-how. We bring leading edge innovations with a knowledgeable and dedicated team of 50 people to the market servicing a wide variety of customers either OEM, big, small or start-ups active in diverse vertical market segments and applications.

Our customer always in focus

We proudly represent the companies on our line-card in a true partnership by providing manufacturer certified technical sales and application engineers to our customer base. This guarantees our business partners to meet solution-driven, technical competent and enthusiastic people at Alcom.
The presence of big global companies in the electronics industry inspires us to be more agile, more adapted to local needs and to differentiate in being more customer and supplier centric. This includes a personal support on a human scale supporting the local "Make-industry".

Alcom is a long-term technology bridge for the world's most advanced technologies and a spearhead business partner in the served markets. We support our customers with specialism, knowledge and design-in expertise from the ground up.

Core values

- Qualified & authorized electronics distributor and representative
- In-region and local sales, design-in, technical and application support
- Offering the most advanced technologies
- Architectural co-thinking with the end-solution in mind
- Standard and customer-configured options
- Manufacturer certified product specialists and application engineers
- A multidisciplinary team offering synergistic electronic products
- Early sharing of strategic technology roadmaps
- Long-term relationships with partners & manufacturers
- Customer-specific logistics
- Competitive pricing & availability of products including EoL programs
- Big enough to handle, small enough to care
- Financially reliable company you can trust
- Alcom's human interface drives differentiation

CERTIFIED **LR** **ISO 9001**

Table of contents

APPLICATIONS & MARKETS

A/V BROADCAST

AEROSPACE & MIL

AGRICULTURE

AUTOMOTIVE

AVIONICS & SATELLITE

E-MOBILITY

ENERGY & UTILITIES

ENTERTAINMENT & GAMING

FIELD SERVICES

HOME & BUILDING AUTOMATION

IIOT
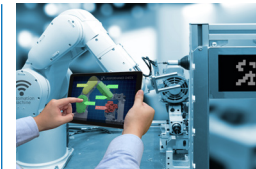
INDUSTRIAL AUTOMATION

INFRASTRUCTURE

INSTRUMENTATION & ATE

IOT & INDUSTRY 4.0
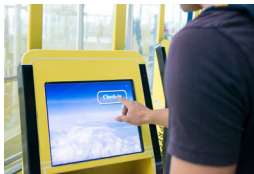
KIOSK, POS & DIGITAL SIGNAGE
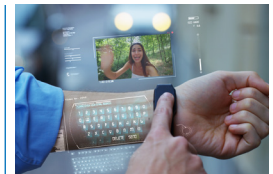
LIGHTING & ILLUMINATION

LOGISTICS

MARINE

MEDICAL, HEALTH-CARE & FITNESS

MOBILE & WEARABLES

MOTOR CONTROL

REMOTE MONITORING

SECURITY & SURVEILLANCE

TELECOM

TRAFFIC & TRANSPORTATION

WHITE GOODS & HOME APPLICANCES

WIRELESS & COMMUNICATION

PRODUCT OVERVIEW

5

ELECTRONIC COMPONENT SOLUTIONS

- Semiconductors
- Frequency & timing
- Power management
- Circuit protection & discretes
- Magnetics
- Passives & electromechanical
- Connectors & cable assemblies
- Photonics

WIRELESS EMBEDDED CONNECTIVITY & SENSORS

- Wireless modules
- Antenna's
- Sensors

WIRELESS & INDUSTRIAL CONTROLS NETWORKING

- Routers & gateways
- Wireless embedded computers
- Industrial ethernet and IP variations
- Wired & wireless machine networking
- Antenna's
- Device to cloud solutions
- Connectivity & remote management services
- Networking & connectivity

DISPLAY & TOUCH

- Displays
- Touch screens
- Optical bonding
- Total display solutions

LED & SOLID STATE LIGHTING

- LED light sources
- Optics
- Thermal management
- Power & intelligent controls
- LED modules

POWER & EMC

- AC/DC power supplies
- DC/DC converters
- Power management modules
- Wireless charging
- E-mobility solutions
- Transformers & power inductors
- UPS
- EMC filters

RUGGED MOBILE COMPUTING

- Tablets
- PDA's
- Vehicle mount computers
- Accessories

EMBEDDED SYSTEMS, AI & EDGE COMPUTING

- Computer-on-modules
- Embedded boards
- Industrial PC & automation
- System integration

Synergistic component solutions across the board

A customer-centric approach and in-depth product knowledge makes Alcom the preferred partner of many design engineers. Alcom takes a look at the architectural design of the embedded control and system engineer by adding multiple products to the circuit boards that drive their end applications while keeping control of total system cost and helping customers to accelerate their time to market. We are proud to partner with industrial customers offering an ever increasing number of products on their BOMs.

For more than three decades Alcom has been successfully partnering with suppliers in attracting 'best of breed' synergistic semiconductor, passive, electromechanical, **Key Partners**

interconnection and photonics product lines. Despite the acceleration of mergers and acquisitions among manufacturers, Alcom was able to grow its position as the preferred local specialist supplier of electronic component solutions. Our focus on top-quality products, innovation and industry-firsts in combination with our knowledgeable technical sales and dedicated customer-support teams are the cornerstones of our strong reputation.

In today's connected world we help broadening the entire ecosystem by bringing Alcom, customers, manufacturers, design consultants and specialists together.

Alcom's future will strongly be driven by Industry 4.0, industrial & "smart" markets.
Our PCB board-level components are typically found in applications such as IoT, embedded controls & industrial automation, broadcast & communications, mil/ aerospace, surveillance & security, traffic and transport, machine building, power energy and environment, e-mobility, home and building automation, medical, automotive, industrial IT & infrastructure.

AMIC Memory IC's and More	AMTEK	ASIX	ATTEND Connect to Your Success	AVERLOGIC	Bridgetek BRIDGING TECHNOLOGY	Central Semiconductor Corp.	Cologne Chip	DELTRON SWISS CONNECT 2 CUSTOMIZE	EATON
EPSON EXCEED YOUR VISION	ept	FTDI Chip	FUANTRONICS	Golledge	GOWIN PROGRAMMING FOR FUTURE	HTK	iNRCORE	IQ-ANALOG BEYOND WHAT'S NEXT	MPS
Nic NIC Components Corp.	NVE NVE CORPORATION	OSI Electronics Manufacturing Services	PERFORMANCE MOTION DEVICES MOTION CONTROL AT ITS CORE	PROTEK DEVICES	Pulse Electronics	SCHURTER ELECTRONIC COMPONENTS	SILICON LABS	SiTime	Valens
W+P PRODUCTS weber+partner GmbH	WTL								

ELECTRONIC COMPONENT SOLUTIONS

Product Selection

- Microcontrollers, microprocessors & interface
- Analog, mixed signal & sensor ICs
- Audio, video, multimedia & communication
- Timing & frequency control
- Memory
- Programmable logic, ASIC, ASSP
- Motor & motion control
- Circuit protection & discretes
- PCB magnetics, inductors & transformers
- Capacitors & resistors
- Electromechanical
- Connectors & cable assemblies
- Light sensing solutions

Components selection are the most crucial part of the electronic system design.
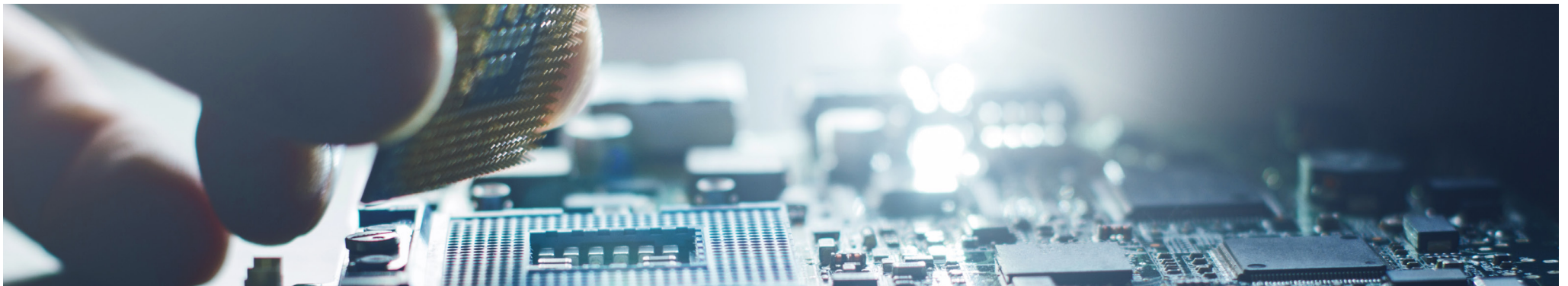
Embedded wireless modules transforming the connected economy

Alcom assists to incorporate connectivity to our customers' designs with wireless SoC's, modules, software and development kits. With the massive growth of the Internet of Things, wireless connectivity has never been more important and adding wireless connectivity has never been easier. Alcom is ready to introduce the wireless terminology and basic design considerations, explain the popular connectivity options such as Wi-Fi, LoRa, Sigfox, Bluetooth, Zigbee amongst others.

We are glad to discuss the key building blocks in hardware, software, antenna trade-offs or certification for easily and quickly incorporating

wireless connectivity into your next embedded design. Alcom has a 20-year history of delivering the latest in wireless technologies and IoT solutions to market. More recently we started activities in disruptive environmental sensor technology. Our comprehensive wireless and sensor module portfolio is always at the forefront of technology and will meet your range, data rate, interoperability, frequency and topology requirements.

Wireless technology transforms the connected economy. Innovative wireless solutions are part of Alcom's DNA and are finding homes in almost any consumer or industrial application.

We serve markets within Industry 4.0, IoT, energy, environment, smart cities, transportation and telematics, medical, entertainment, retail, logistics and warehousing, multimedia.

Key Partners

WIRELESS EMBEDDED CONNECTIVITY & SENSORS

Product Selection

- Antenna's
- Modules
    - Wi-Fi
    - Bluetooth
    - LoRa
    - Sub-GHz
    - RF
    - Thread
    - Z-wave
    - Multiprotocol
- Wireless charging
- CO_2 sensors
- IoT services

Alcom is leading the Internet of Things through communication and close collaboration.

Reliable, secure, scalable and manageable communication

Alcom provides value-focused industrial wired, wireless networking and enterprise network firewall solutions to complete the boxed-communications product group. The expanding use of connected devices and networks puts unique demands on connectivity, device management and security for all companies. Alcoms' boxed wireless solutions add remote connectivity to our customers' applications.

Our reliable Industrial Controls Networking products play essential roles in control and automation by offering advanced ethernet devices and technologies providing critical and secure connectivity with flexible and scalable data transmission solutions.

These solutions enable devices to connect, communicate and collaborate with systems, processes and people by value-focused Industrial Wired and Wireless networking solutions.

Examples of Alcom's industrial ethernet solutions can be found in industrial environments, automation, process control, surveillance or infrastructure.

Our state-of-the-art wireless products are widely used in fleet & asset management, automotive, transportation, process control & energy monitoring, building management, surveillance, remote monitoring, metering, utilities, retail & POS, automation and many more.

Key Partners

WIRELESS & INDUSTRIAL CONTROLS NETWORKING

Product Selection

- Antenna's
- Routers, gateways, modems
- Wireless embedded computers
- Industrial controls networking
- Industrial ethernet solutions
- Media converters
- Device to cloud solutions
- IoT services

We believe no company should be left behind in the wireless networking and IoT revolution.

The right display completes "The right human interface and personal touch"

We help our customers select either the right key component, superior display solution or a fully qualified embedded system for integration into their industrial applications providing the best user experience for our customers' products.

It is one of our strengths to offer cost-effective display solutions meeting the economies of the budget without sacrificing product quality, technical support, longevity of the product or innovation level.

Our customers can rely on Alcom for a 1" to 100" display, a touch solution, an open-frame monitor or a 100% custom-configured system, industrial expertise with know-how included.
Virtually each display technology can be found at Alcom. We teamed up with innovative and leadership companies for small, medium and large size panels. Our complete touch display solutions include touch screens that are vandal-proof , provide LCD bonding for high brightness for in-and outdoor use, implement décor glass printing or integrate the right controller or sensor.

Alcom's reliable and sustainable long-term partnerships enable us to promote cutting-edge technology solutions that last.

Our markets include automotive, IoT, medical, military, telecommunication, renewable energy, intelligent transportation, banking retail, machine vision, digital signage, public information, gaming, test equipment and electronic manufacturing industries.

Key Partners

AMT	APEX	AUO	CiVUE CIVUE OPTOTECH INC.	Crystal Clear Technology Sdn Bhd CTC	DATA IMAGE	E ink.	ELECTRONIC ASSEMBLY new display design	INNOLUX	Noritake
ON	RockTouch	SGD Display the World	yes Optoelectronics						

DISPLAY & TOUCH

Product Selection

- TFT, LCD, OLED & VFD displays
- Standard, customized & kit-display solutions
- Bar-type TFT-displays
- High brightness displays
- Optical bonding
- Transflective & transparent TFT-displays
- EMI-shielded TFT-displays
- Circular displays
- e-Paper displays and system solutions
- Touch screens & displays
- Protective cover glass
- Accessories such as interface, sensor, cables, connectors

We are passionate about the best displays that our customers can design into their product.

Lighting is more than science, it is also emotion

Alcom delivers cutting edge LED lighting solutions by wrapping application support, development tools and design-in services around high performance products from industry-leading manufacturers. Alcom is committed to co-create smarter lighting in the right place at the right time by combining LED's, drivers, optics, thermals, wireless controls and accessories.

In the early days, Alcom developed the LED-based solid state lighting market with energy savings, light output, quality of light and longevity as the key driving factor of customer-value. More recently, LED technology succeeded to replace CDM, halogen and other conventional technologies without sacrificing color quality,

center beam punch, sparkle and dimming capability and quality.

Today it is about the visual perception of illuminated objects, how light enhances or affects mood and health, or the ability to easily control and personalize light.

We cover your current and next solid-state lighting designs, either in architectural/smart lighting/healthcare or well-being and horticulture lighting projects. Alcom can meet the technical needs of lighting engineers searching for intelligent or connected lighting & control solutions by solving lighting problems inside & outside, for living and working.

We lead the LED technology revolution. Applications include retail & shop, hospitality, residential, indsutrial and outdoor, office and education, horticulture, medical, entertainment etc.

Key Partners

LED & SOLID STATE LIGHTING

Product Selection

- LED arrays, light engines & modules
- Horticulture LEDs
- Warm dimming & CCT tunable modules
- UV-A, UV-B, UV-C LEDs & IR LEDs
- Specialty-white LEDs
- LED strips
- Secondary optics
- LED power drivers & controls
- IC drivers and electronics
- Thermal management
- Connectors & holders
- Light management by voice commands

Benefit of the "Ledification" and the next wave of intelligent lighting solutions.

Innovative power solutions for demanding applications worldwide

Alcom's innovative power, filter and battery solutions cover the smallest converters for PCB mounting up to highly scalable cabinets for heavy duty indoor or outdoor use. Alcom's line card guarantees the highest innovation, a first level support and excellent service, competitive pricing and high quality of the products through ISO 9001, ISO 14001 & ISO 13485 certified manufacturing facilities.

On top of high-efficiency, ultrasmall and energy-dense power supplies, we can provide value-add services such as pre-tested "power + embedded mainboards" or "power + lighting"- bundles to ensure the selected combinations fit the total

engineered solution. Pure power management board modules include plug & play Power DC/DC solutions, power modules with integrated inductors, power over ethernet, wireless charging solutions & power management ICs. These can be found in our electronic component section.

EMI/EMC filters, suppression and power magnetic components complete the range of products for demanding worldwide power applications.

End applications range from industrial & IT, electric mobility, machine building, automation & process control, renewable energy & smart grid, home and building automation, lighting, networking, gaming, test & instrumentation, medical & healthcare, transportation & railway, mil and aerospace.

Key Partners

ARCH ELECTRONICS CORP.	Astrodyne TDI Now you have power.	CHINFA	FRIWO	FSP GROUP	INVENTRONICS	LinkCom LinkCom Manufacturing Co., Ltd.	MARSCHNER TABUCHI	MINMAX®	MicroPower Direct
N2Power A Quixtar Company	NetPower	PAIRUI	renata batteries	SCHURTER ELECTRONIC COMPONENTS	Silvertel	SynQor®	TECH POWER ELECTRONICS	VOXPOWER	

POWER & EMC

Product Selection

- EMI/EMC filters
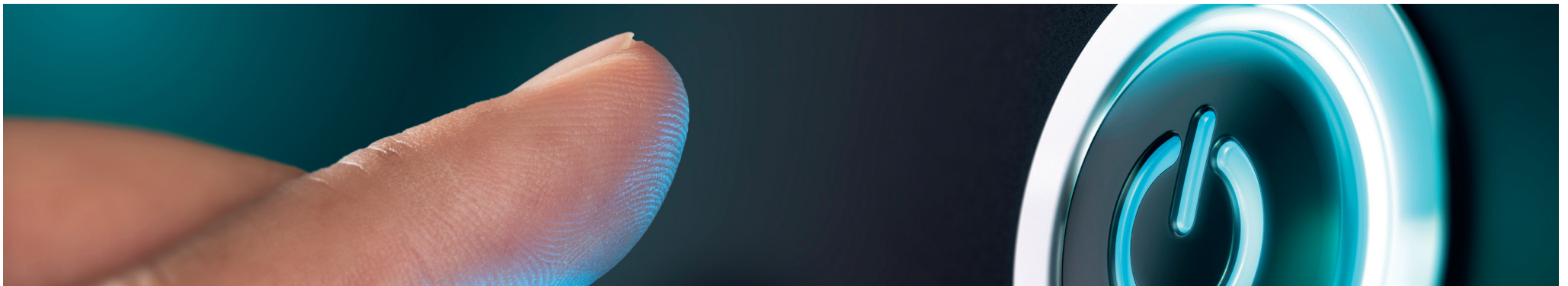- Battery solutions
- AC/DC; DC/DC & DC/AC power
  - Dinrail
  - Chassis mount
  - Open frame
  - Enclosed and rack mounted power
- LED power
- Power management & ICs
- Power over ethernet
- Mains transformers
- Mil COTS DC-DC, filter & surge protection
- AC/DC & DC/DC high voltage
- Coolant power supplies
- UPS systems

General purpose, value-added and complete custom power supply solutions.

Fully rugged mobile computing devices for todays harsh world

Alcom's professional mobile computing division serves the requirements for productivity improvement in harsh or extreme work environments.
"Tough" include strong vibrations, high drop ratings, extreme temperatures, wet, dust or all-weather conditions.

Our devices are designed from inception for the type of tough-use typified by these conditions, not just in the external "hard shell"-housing but in the internal component and cooling arrangements as well. They are capable to

handle demanding multitasking applications. All devices are built to last, easily serviced or fixed.

Rugged tablets/PDAs will save twice as much money in the long-run as any consumer-grade device on the market, regardless of industry or workflow.

Our broad portfolio of solutions include rugged & semi-rugged tablets/PDAs & in-vehicle mobile computing devices that can be found in areas like public safety, vehicles, oil and gas, healthcare, field service, logistics, fleet management & manufacturing, intelligent retail, warehouse & logistics, railroads, industrial utilities.

Key Partners

RUGGED MOBILE COMPUTING

Product Selection

- Tablets
- PDA's
- Vehicle mount computers
- Scanners & readers
- Accessories & services

Rugged devices have a significantly lower chance of failure, they are worth the investment.

Advanced embedded technologies in the core of your system

Alcom is able to satisfy customers looking for state-of-the-art COTS-products, a ready-to-use solution or a tailor-made embedded system according to customers' specifications.
We also provide bundle-solutions that include the best display and touch, embedded system and power supply that are assembled and tested in a ready-to-install system-configuration. An optimized "tailor-made or kit solution" is often the result of the intensive brainstorming and cooperation between Alcom's certified embedded application engineers and the customers' design team enabling us to provide smarter solutions.

Brief, Alcom is your experienced partner to make sure your product doesn't end up with two left feet.

We entered the era of Artificial Intelligence where machines mimic cognitive functions that humans associate with the human mind such as "learning" and "solving". Edge-computing solutions are brought to our customers to benefit from the flexibility of hybrid cloud computing.

Alcom sells "intelligent embedded systems" to customers for worldwide usage in key markets such as infotainment, digital signage, POS, medical, energy, oil and gas, gaming, traffic and transportation, smart factory and industrial automation, machinery and military.

Key Partners

ADLINK TECHNOLOGY INC.	APLEX Technology	ARBOR	Arestech Embedded & Automation Solutions	ATP	avalue Technology Inc.	congatec	DH electronics	DIGI	ENGICAM
GARZ & FRICKE	PEAK System	TQ	Transcend good memories start here	Vecow					

EMBEDDED SYSTEMS, AI & EDGE COMPUTING

Product Selection

- Computer-on-module, carrier boards
- X86/ARM/TI/NVIDIA/RYZEN-based technologies & platforms
- IPC, Box PC & fanless/expandable systems
- Rackmount systems
- HMI/Panel PCs & monitors
- Industrial/embedded motherboards & SBCs
- Communication & peripheral boards
- AI & Edge computing
- Motion & machine vision
- In-vehicle & transportation systems
- Digital signage solutions
- Medical computing

The latest in embedded technology making modular industrial development easier and more flexible.

GET IN TOUCH

Periodical Newsletters

TIPS 4 DESIGNERS
Our monthly e-mail newsletter "Tips 4 Designers" or T4D inspires the embedded control and system design engineer/community. T4D contains new products and far-reaching solutions providing the design teams with new ideas for their specific needs. We publish the following editions:

• Semiconductors, frequency & timing, wireless embedded connectivity & sensors, photonics
• Passives & electromechanical, connectors, circuit protection & discretes, power/EMC
• Wireless & industrial controls networking
• Display & touch; embedded systems, AI & Edge computing
• LED & solid state lighting
• Rugged mobile computing

FEATURED TECHNOLOGY/SUPPLIER/APPLICATION
A monthly newsletter featuring a new or specific manufacturer, application, technology or product category.

Website & socials

Alcom Belgium

Alcom The Netherlands

Be sure to watch our corporate movie in which you get to know us in 90 seconds.

www.alcom.eu

Linecards & product sourcing

Alcom electronics is dedicated to providing its customers with advanced components, modules, boards and systems. Our product range is composed of carefully selected manufacturers guiding customers' embedded design- and system engineers through the design-in process. A solutions-oriented linecard can be found by product category via www.alcom.eu as useful reference to find the right products and solutions for their latest applications.

We can provide independent component, module and board sourcing as an additional service for a large variety of non-franchised products based on the development of strategic relatioships with worldwide electronic supply chains and manufacturers. Our customers can rely on Alcom in case of obsolescence, EoL announcement, product shortage or any other reason for lead time optimization to maintain a smooth production. Contact Alcom for your hard-to- find products. We'll do our very best to find the original or replacement device at competitive pricing and conditions.

Let's meet

Every person or company is welcome at Alcom.

The Alcom electronics qualified sales team is always at your disposal to meet with its guests, either friends or business partners- virtual or live.

We love meeting our business partners in person and are glad to serve our visitors a fresh cup of coffee.

Alcom electronics

ALCOM BELGIUM
Alcom electronics nv/sa
Singel 3
2550 Kontich, Belgium
Tel: +32 (0)3 458 30 33
Email: info@alcom.be
www.alcom.be

ALCOM THE NETHERLANDS
Alcom Electronics B.V.
Rivium 1e straat 52
2909 LE Capelle a/d IJssel, The Netherlands
Tel: +31 (0)10 288 25 00
Email: info@alcom.nl
www.alcom.nl

Get to know us

Alcom provides the world's most advanced technologies. With a team of like-minded entrepreneurs, Alcom will continue to inspire its valued customers to use advanced innovative building blocks in vertical markets. The importance of providing high-level services and a human interface based on specialism, knowledge and design-in expertise will remain key differentiators.

Alcom is positioned for growth. We invite all our customers to discuss their current and future concepts and designs. Let's connect, work and grow together.