Alcom
electronics

Specialism, knowledge and design-in expertise

ELECTRONIC COMPONENT SOLUTIONS

WIRELESS EMBEDDED CONNECTIVITY & SENSORS

BOXED WIRELESS & INDUSTRIAL CONTROLS NETWORKING

DISPLAY & TOUCH

LED & SOLID STATE LIGHTING

POWER & EMC

RUGGED MOBILE COMPUTING

EMBEDDED SYSTEMS, AI & EDGE COMPUTING

ABOUT ALCOM

Bridging the gap between technology, people and business with a human interface

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

Alcom electronics proudly represent the companies on our line-card in a true partnership by providing manufacturer certified technical sales and application engineers. This guarantees our business partners to meet solution-driven, technical competent and enthusiastic people supporting our customers with specialism, knowledge and design-in expertise from the ground up at Alcom.

We create value from component, module, board or system-level by presenting unique and scalable solutions that are leading the way into the 4th industrial revolution.

Alcom electronics differentiates itself with all round services based on technical competence and know-how starting at the customers' design-phase of a new design concept. We offer on-demand and flexible customer-specific logistics including cost-efficient worldwide supply chain management and focus on availability, longevity and price-performance competitiveness.

Alcom is the right organization for electronics professionals in R&D, development purchasing and logistics roles. A knowledgeable and dedicated team of 50 people are driving and servicing a wide variety of customers either OEM, big, small or start-ups active in diverse vertical market segments and applications.

We emphasize on a personal support and sustainable relationships at human scale supporting the local "make-industry".

PROVIDED ADDITIONAL SERVICES
- Accessories to complement the key building blocks of a strategic component, module, board, display power or embedded system
- Worldwide A-Z product sourcing with focus on hard-to-get and EoL products
- Firmware updates, device programming
- Configuration of customized display and embedded system solutions
- Display & embedded kit or system-solution production and assembly

Let's connect

We invite all our customers and interested people and companies to connect and to stay in touch about the latest innovations, advanced technologies, future roadmaps and what is going on at Alcom electronics via personalized customer and supplier meetings, customer in-house seminars, exhibitions, social media, website, webinars and encourage to subscribe for:

MONTHLY TIPS 4 DESIGNERS
The latest innovations bundles monthly by seperate publications:

- Semiconductors, wireless & sensors
- Passives, e-mech, power & EMC
- Boxed wireless & industrial networking
- Displays, boards & systems
- 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.

Let's meet and collaborate

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.
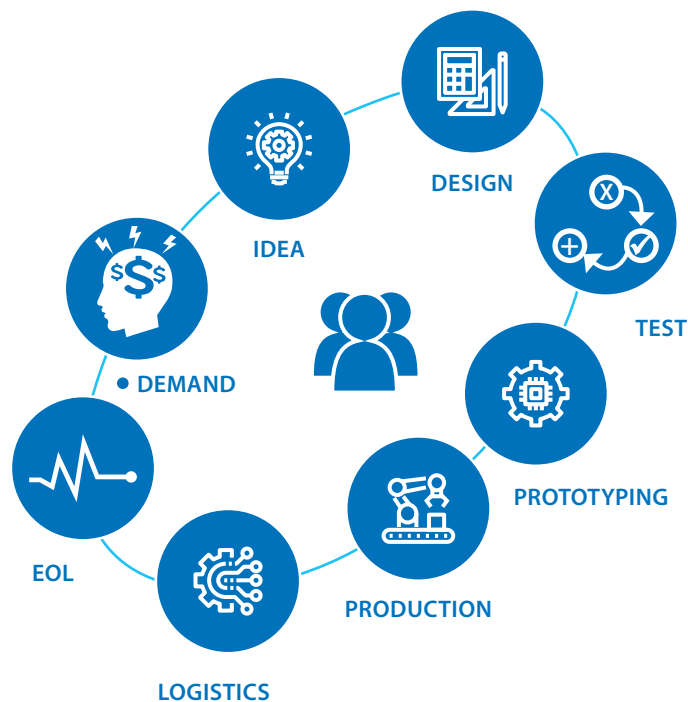
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Co-creation starts here

IDEA
DESIGN
TEST
DEMAND
PROTOTYPING
EOL
PRODUCTION
LOGISTICS

"
Alcom considers everybody an indispensable added value in the collaborative chain with all of its partners.

Components selection is one of the most crucial and challenging aspects of the electronic system design
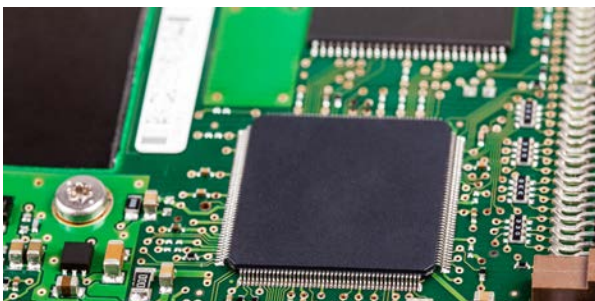
ELECTRONIC COMPONENT SOLUTIONS

Semiconductors

Audio, video, multimedia

- Voice, audio, video, broadcasting ICs
- Long-range, high-speed video and data transmission
- HD BaseT technology
- Infotainment platforms boards and systems

Interface ICs

- Ethernet, EtherCAT, PCIe/PCI/USB series
- USB-USB RS232/RS 422/RS 485/TTL cable series
- RS-232/RS-422/RS-485/Profibus/CAN transceivers ICs
- GoBridge ASSP between USB & SPI, JTAG, I²C, GPIO and UART
- LCD controllers & drivers, HMI display ICs, embedded video engines
- Touch & gesture
- ISDN line interfaces, network controllers
- Digital isolators

Motion/motor control

- Pulse motion controllers
- Real-time network controllers such as EtherCAT, ethernet and MotionNet
- Motor drivers; motion control boards and ICs
- Brushed DC motors/solenoid/stepper motor/ BDLC/FAN drivers, motor controllers
- Smart motor modules
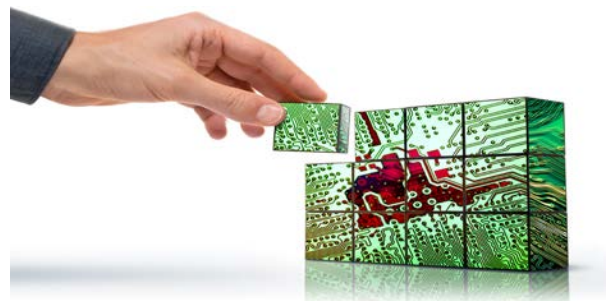- Robot and motor drive technology including e-mobility

Analog, mixed signal & sensor ICs

- Data conversion, mixed signal, precision analog & interface
- Analog signal processors
- Analog & digital isolators
- Analog switches, load switches, e-fuses
- Automotive
- Spintronic products including sensors, isolator and power
- Intelligent sensors-biometric, humidity, magnetic, optical, proximity, temperature, thermocouple, position, pressure, current sensor

Circuit protection & discrete semiconductors

- Diodes, rectifiers, transistors, MOSFETs, JFETs, thyristors,
- TVS diodes & ESD suppressors, avalanche breakdown diodes, steering diode TVS, high power TVS, PPTC devices, multilayer varistors & MOVs
- Fuses, resettable fuses, thermofuses, fuseholders, fuse blocks & clips
- Thermal circuit breakers and accessories; voltage selectors
- Multi-discrete modules & power modules

Microcontroller, microprocessors & memory ICs

- Microcontrollers 4-32 bit
- Voice/audio/display/USB/motor/24-bit A/D Flash/security & safety/touch/music/wireless/communication/CAN bus MCUs
- Special purpose MCU's
- NOR-SPIFlash, I²C Eeprom, DRAM, LP SRAM, OTP memories
- Connectivity optimized MCUs, SoCs and modules
- Interface, peripheral & connectivity MCU's
- Starter kits, development boards & tools

Semiconductors

Photodiodes & optical sensors

- Silicon, InGaAs & GaAs photodiodes
- Planar diffused photodiodes
- Light sensing solutions
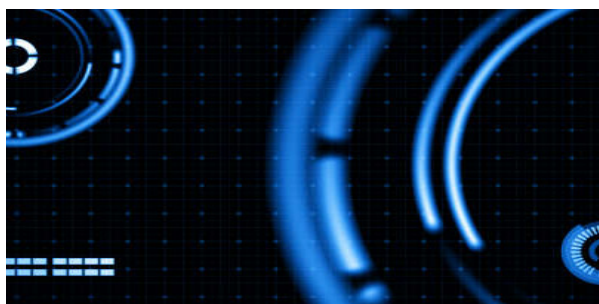
PoE power management modules

- PoE PD & PSE ICs & integrated modules
- High power PoE transformers
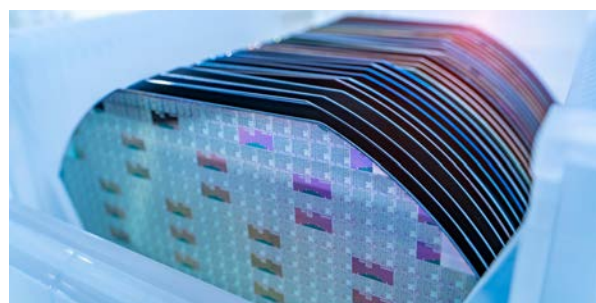- PoE systems including injectors/midspan and switches

Power management ICs

- AC/DC & DC/DC power management
- PMIC, LDO, supvervisory & power management
- Single & multiple output power modules with integrated inductor
- Semi-shielded, molded inductors supporting power management ICs
- Automotive buck, boost, PMIC, linear regulators
- LED lighting automotive backlight, illumination & signalling, monitoring, supervision
- Power switches & modules
- Transient voltage suppressors

Power semiconductors & modules

- Diodes, rectifiers, power MOSFET & JFETs, thyristors
- Power modules with integrated inductors
- IGBT drivers & SIC driver DC/DC converters
- Wireless power modules

Programmable logic, ASIC, ASSP

- GateMate, flash & SRAM-based FPGAs
- ASIC solutions-gate arrays, embedded arrays, standard cells
- Starter kits and development tools
- EDA integrated design tools from design entry to verification

Timing, passives & electromechanical

Capacitors & resistors

- Capacitors-tantalum, MLCC, film, aluminum electrolytic
- Double layer supercapacitors & supercapacitor modules
- Resistors & thermistors

Circuit protection & discrete semiconductors

- Diodes, rectifiers, transistors, MOSFETs, JFETs, thyristors
- TVS diodes & ESD suppressors, avalanche breakdown diodes, steering diode TVS, high power TVS, PPTC devices, multilayer varistors & MOVs
- Fuses, resettable fuses, thermofuses, fuseholders, fuse blocks & clips
- Thermal circuit breakers and accessories; voltage selectors
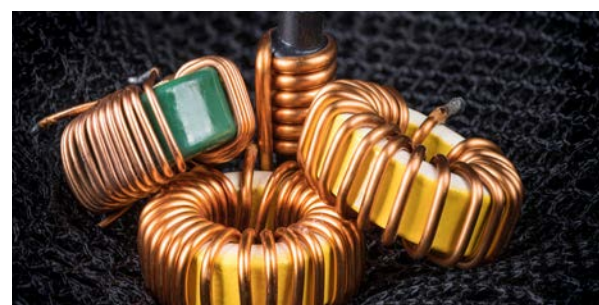- Multi-discrete modules & power modules

Electromechanical

- Connectors & indicators
- Switches, DIP switches, action switches
- Standard general-purpose electromechanical relays
- Power entry modules
- Input systems

Magnetics, inductors & transformers

- Chip/surface mount/DIP, high power inductors & ferrite beads
- Common-mode & storage chokes, magnetic cores, bobbins and plastic parts
- Ethernet magnetics & connector modules
- Low & high frequency transformers
- Automotive magnetics
- Gate drive/current sense/planar transformers
- Space, MIL and high-rel magnetics

Timing & frequency control

- MHz SMD/THT/32.768 kHz Quartz Crystals
- Quartz Crystal oscillators uPower/ultra low power/programmable
- Real time clock modules
- Clock buffers, clock generators, jitter attenuators and network synchronizers
- VCXO, VCTCXO, SPXO, LPXO, TCXO, OCXO
- MEMS timing-oscillator, clock and resonator products
- Spread spectrum, high temperature, automotive oscillators
- Ceramic resonators, SAW products & Filters
- 1U/3U rack mounting & DIN-rail high precision time servers

Connectors & cables

Cable assemblies & cords

- Inlet/outlet/cord connectors & cord sets
- Cable assemblies-RF, circular, USB, ethernet, SATA, HDMI, board to wire, LVDS,…
- USB cable assemblies-USB RS232/RS 422/RS 485/TTL cable series
- Machine vision and camera link cables
- High speed transmission cable assemblies
- Specialized vehicle harnesses

Connectors

- PCB-board to board, headers & sockets, wire to board, IC sockets, plugs & jacks
- PCB card-mPCIe, M.2, mPCI, MXM, SO DIMM, SIM Card, COMe, cPCI, PC/104
- Pogo pins, battery connectors, terminal blocks
- D-Sub incl filtered & mixed combi D, hoods & accessories & customized solutions
- I/O; sealed I/O, circular M5/M8/M12/M23, RF, optical, waterproof connectors
- DIN41612, highspeed backplane, VPX, VME-bus, advanced TCA
- Power entry modules without filter, IEC power distribution units
- Automotive & machine vision/camera link connectors

KEY PARTNERS

AMIC Memory IC's and More	AMITES	ASIX	ATTEND	Bridgetek	Central Semiconductor Corp.	Cologne Chip	DAPU
DELTRON CONNECT 2 CUSTOMIZE	EATON	EPSON EXCEED YOUR VISION	ept	FTDI Chip	FUANTRONICS	Golledge	GOWIN
HOLTEK	HD Hongda Capacitors	HTK	iNRCORE	LinkCom Manufacturing Co., Ltd.	MPS	Nic NIC Components Corp.	NVE CORPORATION
OSI Electronics	PERFORMANCE MOTION DEVICES	PROTEK DEVICES	Pulse Electronics	SCHURTER ELECTRONIC COMPONENTS	SILICON LABS	SiTime	SKYWORKS
Valens	W+P PRODUCTS weber+partner GmbH	WTL					

Leading the Internet of Things through communication and close collaboration

WIRELESS EMBEDDED CONNECTIVITY & SENSORS

Wireless embedded connectivity & sensors

Antennas

- Embedded/external/in-building/outdoor & vehicle mount antennas
- Cellular, mmWave, GNSS, WiFI, Bluetooth & NFC, combo, LPWA & ISM, Satcom,…
- Custom configured solutions
- Manufacturer-approved antenna solutions for each router or module
- Cables, connectors, accessories & mounts

Industrial embedded communication

- 5G/4G/LTE Cat1/LTE-M/NB-IoT/3G/2G/GNSS
- Bluetooth, BLE, Thread, Zigbee, Z-Wave, Wi-Fi, Sub-Ghz multiprotocol and proprietary ICs and modules
- System-on-modules & SBCs with integrated wireless
- Smart automotive-grade modules
- Antenna's, cables and connectors

Managed IoT connectivity and services

- Scalable system-on-modules and gateways including cellular connectivity
- IoT device monitoring of devices and data points
- Edge-to-Cloud solutions for connecting industrial assets
- IoT device monitoring and cloud services
- Edge-to-cloud solution services

Sensors

- Ultra-Low power CO2 sensing modules
- Biometric, humidity, light, magnetic, optical, proximity, temperature, thermocouple, position, pressure , current sensor ICs
- Gyro sensors, inertial measurement, accelerometer, inclinometer
- Sensors for motion control and position sensing
- Piezo and ultrasonic transducers
- LoRaWAN wireless IoT sensors
- mmWave presence detection and sensing

Wireless connectivity SoC's & modules

- WiFi, Bluetooth, Lora, Zigbee, Sub-Ghz, Cellular, proprietary, Sigfox, Thread, Wi-SUN, Xpress, Z-Wave, multiprotocol as SoC and/or module
- XBee wireless modules for 2.4 Ghz/Sub-1GHz/cellular
- WiFi 5 802.11ac/WiFi 6 802.11ax modules
- 5G/LTE-A/LTE-A Pro/LTE Cat1/Cat M, NB-IoT, 3G,2G wireless modules
- Cellular embedded modems & SoMs, socket modems
- Automotive-grade 5G, C-V2X, LTE Cat 6/Cat 4 modules
- GPS/GNSS repeaters & positioning modules, trackers & receivers
- NFC, RFID, HF, IR
- System-on-modules with integrated wireless connectivity

KEY PARTNERS

Building connected industry, making industry connected

BOXED WIRELESS & INDUSTRIAL CONTROLS NETWORKING

Boxed wireless & industrial controls networking

Industrial control networking

- Rackmount & DIN-Rail Managed/Unmanaged multiport Ethernet switches with or w/o PoE
- EN60155 Ethernet switches
- Serial and USB-connectivity, protocol switches, fieldbus gateways
- Media converters
- Wired RS-232,RS-422, RS-485, Ethernet and CAN solutions
- Network Management Software
- Time synchronization products

Managed IoT connectivity and services

- Scalable system-on-modules and gateways including cellular connectivity
- IoT device monitoring of devices and data points
- Edge-to-Cloud solutions for connecting industrial assets
- IoT device monitoring and cloud services
- Edge-to-cloud solution services

Antennas

- Embedded/external/in-building/outdoor & vehicle mount antennas
- Cellular, mmWave, GNSS, WiFI, Bluetooth & NFC, combo, LPWA & ISM, Satcom,…
- Custom configured solutions
- Manufacturer-approved antenna solutions for each router or module
- Cables, connectors, accessories & mounts

Industrial wireless & cellular

- Modems, routers and gateways
- Enterprise, industrial, transportation, vehicle routers
- Gateways for specific markets such as renewable energy & metering
- Wireless LAN access point
- Short-range wireless-Bluetooth, LoRa, Zigbee, ISM,…
- IoT platforms for easy management, monitoring and control
- Complete offerings including antennas, device management and support packages

KEY PARTNERS

We are passionate about the best display system solutions that our customers can design into their product
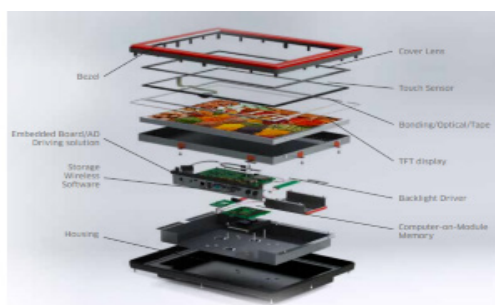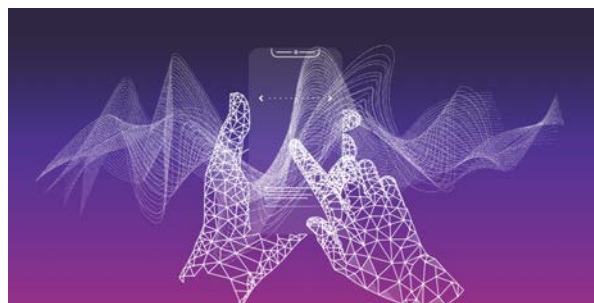
DISPLAY & TOUCH

Display & touch

e-Paper - OLED - VFD - LCM

- Standard & customized monochrome character/graphic LCD displays
- Intelligent displays with RS-232, SPI and I²C
- VFD displays and modules
- OLED graphic and character display modules
- Mono and color ePaper displays up to 42"
- Digital paper displays, controller boards and embedded system solutions for public displays and healthcare

Input systems

- Complete HMI solutions incl input system, display, electronics and housing
- Standard and customized front panels & touch solutions
- PCAP, resistive, IR, SAW touchscreens
- EMI shield windows for TFT modules
- Open frame monitors
- Capacitive switches
- Membrane switches

TFT-LCD displays

- Standard and modified or enhanced TFT Mono and color displays
- Small, medium, large industrial and public information displays
- Curved/outdoor/stretched bar/square and round displays
- Special displays with wider temperature/viewing angle
- Sunlight readable displays
- Smart interactive displays
- TS16949 certified vehicle displays
- Display driving boards, value-add panel integration & customized display kits & complete solutions

Touchscreen technologies

- Resistive/P-cap/infrared and SAW touch
- Optical bonding and assembly of display and touchscreen
- Touch screen controllers
- Capacitive touch switches, sliders and/or wheels
- Custom-configured display & touch integration

KEY PARTNERS

AMT	APEX	AUO	CiVUE CIVUE OPTOTECH INC.	Crystal Clear Technology Sdn Bhd CTC	DATA IMAGE	DISPLAY INDUSTRIAL SOLUTIONS VISIONS	Eink.
INNOLUX	Noritake	ON	RockTouch	SCHURTER ELECTRONIC COMPONENTS	yes Optoelectronics		

Light is perception, generates inspiration and intensifies emotion

LED & SOLID STATE LIGHTING

LED & solid state lighting

LED ecosystem support & solutions

- LED heatsinks, heatpipes, liquid cooling
- Optics, holders and connectors
- LED power drivers & power-to-light solutions
- Smart driving controllers
- LED controllers & IC drivers
- LED lighting backlight, illumination & signalling, monitoring, supervision
- AC/DC non-isolated/isolated & LED lighting

LED light sources

- LED light sources- Chip-on-Board (CoB) arrays for lighting markets
- UV, IR, horticulture, specialty white, dynamic COB LEDs
- SMD, lamp & 7 segment displays
- LED modules & subsystems

LED power drivers & controls

- Programmable LED power-constant current; constant power; constant voltage
- Standard and smart outdoor/indoor LED power drivers
- Power-to-light solutions
- DC powered LED drivers
- Light management by voice command
- Wireless and smart intelligent control and dimming
- Flush mount solutions

LED strips

- Linear and square modules
- Strips for indoor/outdoor usage
- 12/24/48VDC & 230VAC LED strips
- Dot-free and COB LED strips
- Human centric, dim to warm and tuneable white LED strips
- RGB and RGBW LED strips
- Consumer & industrial vertical market-specific lighting LED strips
- Matching dimmable or non-dimmable CV drivers in different form factors with optional PIR sensors
- LED strip accessories

KEY PARTNERS

APEX	bridgelux	cooliance	CUVÉE	FRIWO	INVENTRONICS	ICT light	LEDIL
LinkCom LinkCom Manufacturing Co., Ltd.	LUMINUS	MOSO	PAIRUI	SNAPPY KNOW HOW. NO LIMITS.			

Balancing the essential power solution between
performance, reliability and cost

Power conversion

Batteries

- Lithium, silver oxide & tabbed lithium coin cells
- Rechargeable lithium and lithium-Ion polymer batteries
- Thin-film batteries
- Battery holders and hearing aids
- Battery packs
- Driving solutions for e-mobility

DC/AC inverters

- Medical-grade UPS systems
- UPS for residence, retail, edge computing, server rooms, cloud & datacenter infrastructure

LED power drivers & controls

- Programmable LED power-constant current; constant power; constant voltage
- Standard and smart outdoor/indoor LED power drivers
- Power-to-light solutions
- DC powered LED drivers
- Light management by voice command
- Wireless and smart intelligent control and dimming
- Flush mount solutions

AC/DC power supplies

- Open frame, Enclosed, encapsulated, board mount, din rail, rack mount, HiRel and MIL-COTS
- External plug-in adapters; desktop, flush-mount and USB power supplies
- Industrial, ITE, household, gaming, medical, MIL, aero- approved power
- Standard/modular/configurable & customer-specific power
- Military power systems-rackmount, VPX, configurable
- LED power

Battery chargers

- Battery management ICs
- Compact interchangeable AC-plug & desktop chargers
- Intelligent eco-friendly battery charge modules
- Battery chargers for lead acid and lithium-ion batteries
- E-Mobility converters including on board chargers

DC/DC converters

- Open frame, enclosed, encapsulated, board mount, external, rack mount
- DC/DCs for general industrial, data & telecom, pv, medical and rail
- Brick DC/DC Converters
- Power modules with integrated inductors
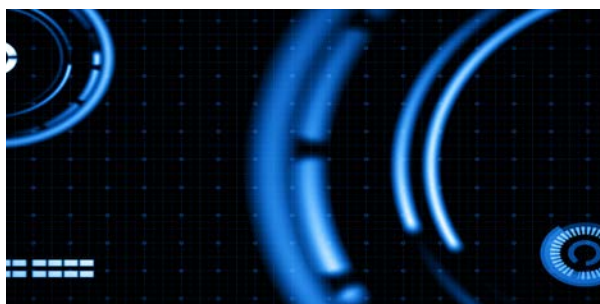- Power management ICs
- MIL-COTS

Power conversion & EMC

Mains transformers

- PCB & flat laminated transformers
- AC/DC power modules for PCB mounting
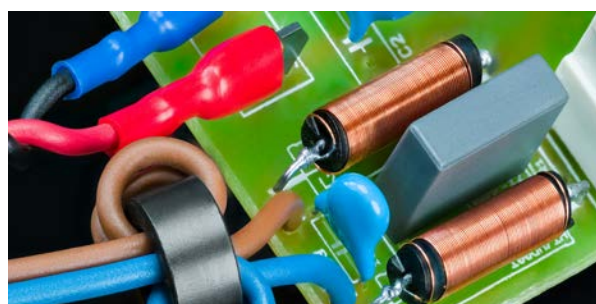- Single/three-phase mains transformers
- Toroidal transformers

PoE power management modules

- PoE PD & PSE ICs & integrated modules
- High power PoE transformers
- PoE systems including injectors/midspan and switches

Power management ICs

- AC/DC & DC/DC power management
- PMIC, LDO, supvervisory & power management
- Single & multiple output power modules with integrated inductor
- Semi-shielded, molded inductors supporting power management ICs
- Automotive buck, boost, PMIC, linear regulators
- LED lighting automotive backlight, illumination & signalling, monitoring, supervision
- Power switches & modules
- Transient voltage suppressors

Power solutions >1000 Watt

- Modular high density configurable and conduction cooled power supplies up to 1200W
- Coolant power supplies providing conduction, convection, air and liquid cooling
- Power distribution units

Wireless charging

- Wireless power transceiver, receiver and transmitter modules
- Wireless charger Tx/Rx flash MCU's
- Inductive charging

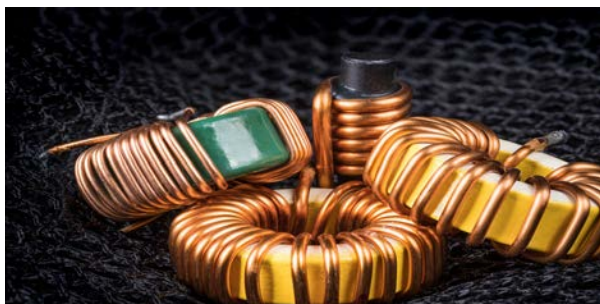## EMC/EMI/RFI filters

- EMI and RFI filter components
- Suppression components including capacitors, coils, transformers and HF chokes
- Power entry modules with filter, single and 3-phase block filters
- EMI shield windows for TFT modules

Power components

Circuit protection & discrete semiconductors

- Diodes, rectifiers, transistors, MOSFETs, JFETs, thyristors
- TVS diodes & ESD suppressors, avalanche breakdown diodes, steering diode TVS, high power TVS, PPTC devices, multilayer varistors & MOVs
- Fuses, resettable fuses, thermofuses, fuseholders, fuse blocks & clips
- Thermal circuit breakers and accessories; voltage selectors
- Multi-discrete modules & power modules

Current & hall effect sensors

- Hall effect current sensors
- Hall effect linear current sensors ICs
- Current sense magnetics & transformers

Magnetics, inductors & transformers

- Chip/surface mount/DIP, high power inductors & ferrite beads
- Common-mode & storage chokes, magnetic cores, bobbins and plastic parts
- Ethernet magnetics & connector modules
- Low & high frequency transformers
- Automotive magnetics
- Gate drive/current sense/planar transformers
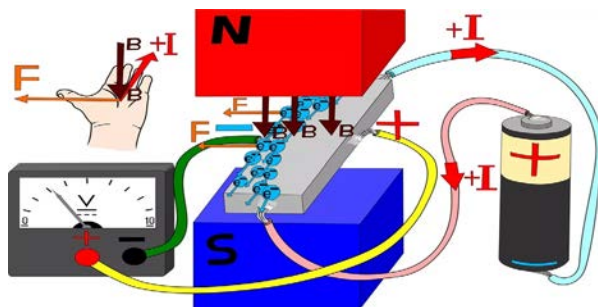- Space, MIL and high-rel magnetics

Power semiconductors & modules

- Diodes, rectifiers, power MOSFET & JFETs, thyristors
- Power modules with integrated inductors
- IGBT drivers & SIC driver DC/DC converters
- Wireless power modules

KEY PARTNERS

ARCH ELECTRONICS CORP.	Astrodyne TDI	CHNFA	FRIWO	FSP GROUP	INVENTRONICS	LinkCom Manufacturing Co., Ltd.	MARSCHNER TABUCHI
MINMAX	MPD MicroPower Direct	N2Power A Qualstar Company	NetPower	PAIRUI	renata batteries	SCHURTER ELECTRONIC COMPONENTS	Silvertel
SNAPPY KNOW HOW. NO LIMITS.	SynQor	TECH POWER ELECTRONICS	VOXPOWER				

Rugged devices for tough environments are always worth the investment

RUGGED MOBILE COMPUTING

Rugged tablets/PDA's/vehicle mount computers

Rugged PDA's, tablets, vehicle mount computers

- Rugged PDAs, tablets and computers for harsh environments
- Military tablets/panel PCs
- Semi-rugged tablets & medical tablets for clinical environments
- Explosion proof PDAs
- Mobile data terminals and vehicle mount computers
- IoT devices, wearables and hands-free scanning wearables
- Barcode scanners
- Accessories, software solutions, extended warranty programs

Why rugged?

What's the difference?

Semi-rugged: Often referred to as business rugged for professional use.

Fully-rugged: Often tested to withstand various military grade specifications, extreme temperatures, can be dropped and resistant against water or dust.

Ultra-rugged: Often tend to cost more than the rest because they are designed to withstand the absolute harshest conditions and are developed to be pretty much indestructible.

For whom?

Whether or not to invest in a rugged versus consumer device is the first key question that is often overlooked.
Rugged devices provide **peace of mind** for your mission critical information and are built to withstand the demands of a truly mobile workforce.

The rugged mobile devices are designed for **anyone** who works in a **tough environment**. Whether the challenges come from weather, extreme temperatures or tough work situations, our devices measure up to all of them.

Be assured your Rugged device is seamlessly **integrated** into your **company's environment.**

Your benefits?

Total Cost of Ownership is the total amount estimated to help business managers assess the costs related to the purchase of any capital investment, spread out over the life of the item.

Tangible and intangible costs are both to be considered when purchasing or investing in a major asset.

Tangible costs: Purchase price, installation and implementation costs

Intangible costs: The percentage of time you'll be without your device, service and repair costs including hassle and time, lost sales, customer service impact, data loss, employee down time, customer satisfaction impact, employee morale, time wasted to diagnose the issue.

The cost of having your company's IT administrator perform the required maintenance can further increase the overall cost of a non-working device.

KEY PARTNERS

ADLINK TECHNOLOGY INC. | AMobile Powered by MECUTEK | avalue Technology Inc. | handheld | msi | RUGGON

Making modular industrial designs easier, more powerful and more flexible

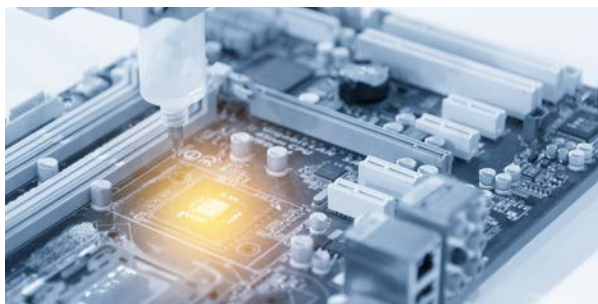**EMBEDDED SYSTEMS, AI & EDGE COMPUTING**

Boards & systems

Computer & System-on-Modules

- Modular designed concepts offering replaceable and upgradable advantages
- SMARC, Qseven, XTX, ETX, MXM, DIMM, SODIMM, MicroSoM, LGA
- COM express type 7/6/2/10
- COM-HPC (COM-HPC server/client type)
- Single board computers integrating wireless connectivity
- Evaluation and/or carrier boards

GPU and Edge computing

- Nvidia Quadro embedded and Jetson-based modules & systems
- MXM GPU modules and PCI Express based on Nvidia Quadro GPU's
- GPU/AI computing boards and complete systems
- High performance GPU computers
- AI-machine vision & AI-smart camera products
- Edge platforms & servers & PCI express graphics cards

Industrial embedded communication

- 5G/4G/LTE Cat1/LTE-M/NB-IoT/3G/2G/GNSS
- Bluetooth, BLE, Thread, Zigbee, Z-Wave, Wi-Fi, Sub-Ghz multiprotocol and proprietary ICs and modules
- System-on-modules & SBCs with integrated wireless
- Smart automotive-grade modules
- Antenna's, cables and connectors

19 inch, VPX, cPCI, xTCA

- CompactPCI/PlusIO/ serial-blades, enclosures, systems, backplanes
- VPX, OpenVPX rugged platforms & power supplies
- AdvancedTCA platforms; switch and processor blades
- 19" 4U rackmount systems & tower workstations
- Rackmount integrated system solutions

Embedded I/O expansion modules & systems

- Data acquisition, digitizers, GPIB
- CAN and LIN fieldbus communication
- Analog output, digital & remote I/O modules

Industrial & embedded motherboards

- 3,5"-5,25" SBC, PC/104 & PC/104+, EPIC, Pico-ITX, Thin Mini-ITX, Mini-ITX, Micro ATX, ATX, PICMG
- Chassis/backplane/power supplies, peripherals & accessories

Boards & systems

Industrial PC & systems

- Modular embedded computers, IPC systems & IoT gateways
- Expandable/integrated fanless embedded PCs
- Industrial multi-touch displays, open-frame monitors and panel PCs
- Industrial & stainless steel panel PCs & HMI
- ATEx certified box Pcs
- In-vehicle panel PCs
- Standard and custom-configured 19" rackmount form factor systems

Machine vision

- Frame grabbers & video capture cards
- Embedded vision and smart camera's
- AI machine vision devices and systems
- Compact-integrated PC systems with flexible expansion capabilities

Motion/motor control

- Pulse motion controllers
- Real-time network controllers such as EtherCAT, ethernet and MotionNet
- Motor drivers; motion control boards and ICs
- Brushed DC motors/solenoid/stepper motor/BDLC/FAN drivers, motor controllers
- Smart motor modules
- Robot and motor drive technology including e-mobility

PXI products

- PXI products for test & measurement
- PXI/PXIe modules, controllers, and chassis
- Remote controller

Smart camera

- AR smartglasses & micro eye-tracking solutions
- AI smart camera based around nVidia and Movidius cores
- Full line support including analog, GigE vision, IEEE1394b, camera link, HDMI and 3G SDI

Panel PC's & HMI, Memory & storage

Panel PC's & HMI

- Industrial displays & panel PCs; medical & open frame panel PC
- Industrial multitouch panel PCs, displays & touch monitors
- Harsh-and extreme environment panel PCs & HMI
- ATEx-certified panel PC's, displays & box PCs
- In-vehicle panel PCs
- E-paper public display and healthcare IoT solutions

Memory & storage

- Managed NAND-e.MMC, Securstor and NVMe
- Embedded/industrial memory cards
- Solid state drives and modules
- DRAM modules

Input systems

- Complete HMI solutions incl input system, display, electronics and housing
- Standard and customized front panels & touch solutions
- PCAP, resistive, IR, SAW touchscreens
- EMI shield windows for TFT modules
- Open frame monitors
- Capacitive switches
- Membrane switches

Touchscreen technologies

- Resistive/P-cap/infrared and SAW touch
- Optical bonding and assembly of display and touchscreen
- Touch screen controllers
- Capacitive touch switches, sliders and/or wheels
- Custom-configured display & touch integration

KEY PARTNERS

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

APPLICATIONS & MARKETS

A/V BROADCAST	AEROSPACE & MIL	AGRICULTURE	ARTIFICIAL INTELLIGENCE & EDGE COMPUTING	AUTOMOTIVE
AVIONICS & SATELLITE	E-MOBILITY	ENERGY & UTILITIES	ENTERTAINMENT & GAMING	FACTORY & INDUSTRIAL AUTOMATION, ROBOTICS
GIS, MAPPING & MINING	HOME & BUILDING AUTOMATION	IIOT & INDUSTRY 4.0	IN-VEHICLE COMPUTING	INFRASTRUCTURE
IOT	KIOSK, POS & DIGITAL SIGNAGE	LIFE SCIENCES, LAB, BIO & PHARMA	LIGHTING & ILLUMINATION	LOGISTICS
MARINE	MEDICAL, HEALTHCARE & FITNESS	MOBILE & WEARABLES	MOBILE WORKERS & FIELD SERVICES	MOTOR CONTROL
POWER CONVERSION	PUBLIC SAFETY	REMOTE MONITORING	RF & WIRELESS COMMUNICATION	SECURITY & SURVEILLANCE
SMART RETAIL	T&M AND INSTRUMENTATION	TRAFFIC & TRANSPORTATION	WHITE GOODS & HOME APPLIANCES	WIRED DATA & TELECOM

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