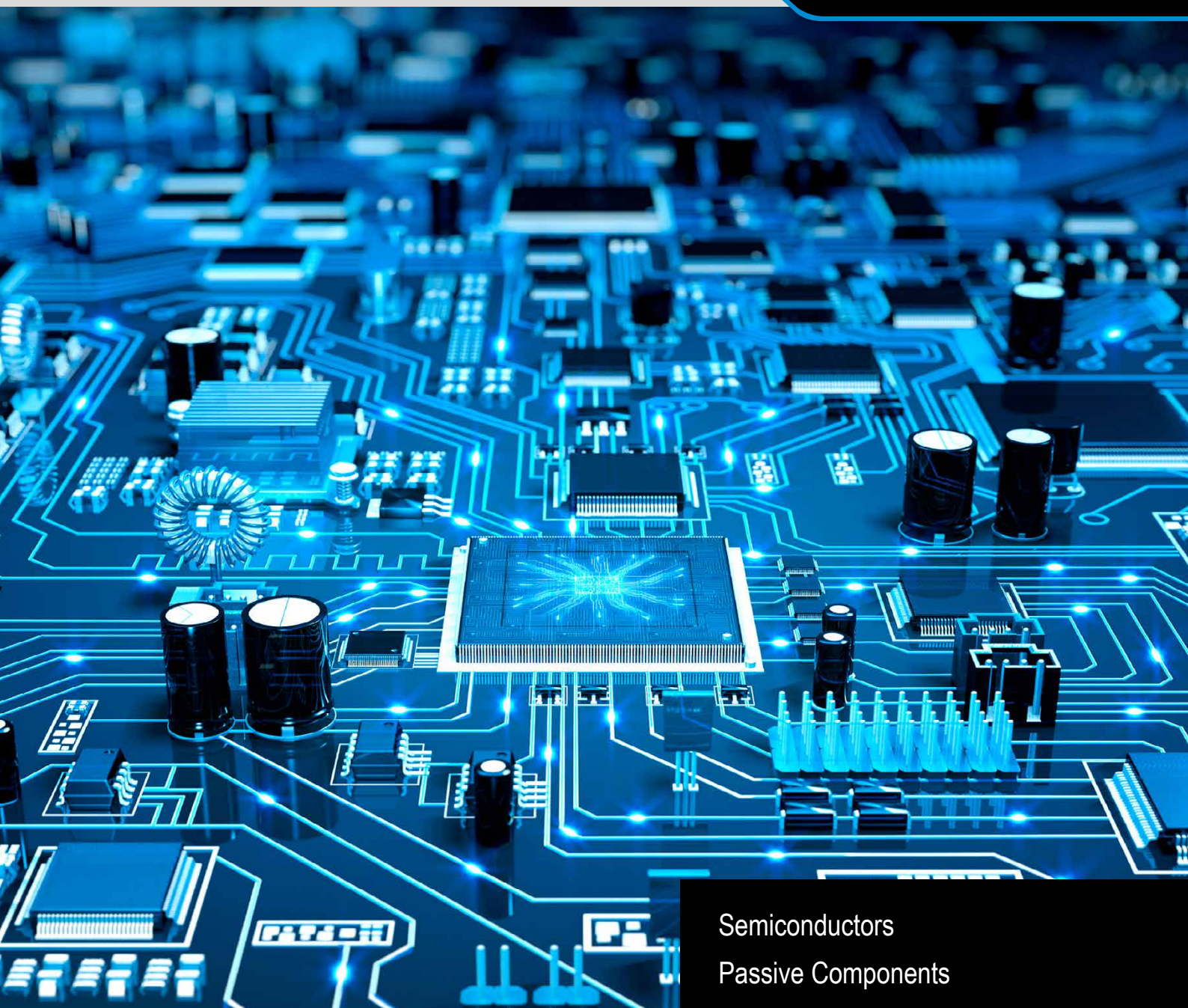




Semiconductors
Passive Components
Electromechanical Components
Displays & Monitors
Boards & Systems
Storage Technologies
Wireless Technologies

V 6.0

Our Portfolio. **Unique.**



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360° Portfolio – Solutions for Your Company

Changing markets call for new solutions. With a service portfolio extending far beyond the area of just distribution, we have emerged as a major trendsetter and a source of first-class innovation. Indeed, we have established ourselves as a key interface between manufacturers and customers. To succeed at this level, it is essential that we always remain one step ahead of the game, that we identify new trends as they begin to take shape and that we define new benchmarks in service provision.

We call this approach "Intelligent Distribution". Boasting a product range that is unrivalled in breadth and depth, we have established ourselves as the largest independent European distributor of technical solutions for all product groups. Our unique portfolio is complemented by high-end logistic solutions tailored to customer requirements.



Thomas Rudel
CEO

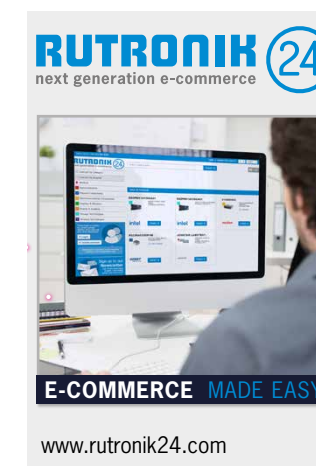
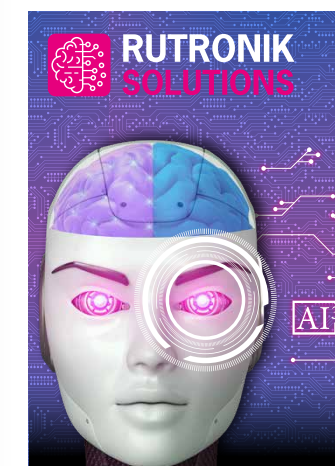
In addition to adjusting our services in line with market conditions, we are committed to shaping our business around customer structures and market needs, as well as aligning our operations with manufacturers' product planning. First-class availability and on-time delivery are two additional milestones of our success.

In essence, "Intelligent Distribution" is about creating a finely tuned service. Only by achieving this balance can one deliver added value on all fronts: more products, more solutions, more service and more profitability.

Our Product Portfolio



Our Initiatives



Committed to excellence

Consult – Know-how. Built-in.

The Technical Competence from RUTRONIK

Worldwide and individual consulting on the spot by competent sales staff, application engineers & product specialists.

Components – Variety. Built-in.

The Product Portfolio from RUTRONIK

Wide product range of semiconductors, passive and electromechanical components, displays & monitors, boards & systems, storage and wireless technologies for optimum coverage of your needs.

Logistics – Reliability. Built-in.

The Delivery Service from RUTRONIK

Innovative and flexible solutions: from supply chain management to individual logistics systems.

Quality – Security. Built-in.

Quality without Compromise from RUTRONIK

The integrated management system (IMS) encompasses quality control, information security, environmental protection, occupational health and safety.



More than 76 offices worldwide.
Over 1500 employees. Present in America, Asia and Europe.

Consult – Know-how. Built-in.

The technical competence from Rutronik

Worldwide and individual consulting on the spot: by competent sales staff, application engineers and product specialists.

- Worldwide and Individual Consulting
- Application Consulting
- Commercial Consulting
- Direct Contact to Franchise Suppliers

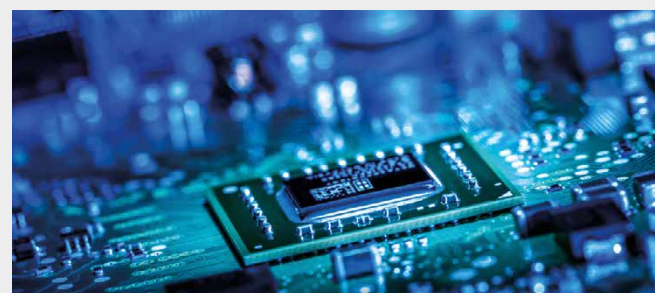


Components – Variety. Built-in.

The product portfolio from Rutronik

Wide product range of electronic components and embedded & wireless technologies for optimum coverage of your needs.

- Semiconductors
- Passive Components
- Electromechanical Components
- Embedded & Wireless
- Monitor & Displays
- Boards & Systems
- Storage Technologies
- Wireless Technologies

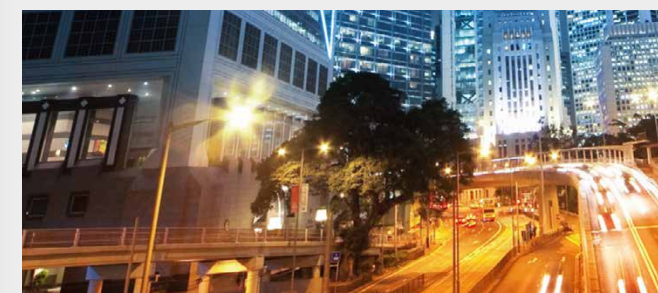


Logistics – Reliability. Built-in.

The delivery service from Rutronik

Innovative and flexible solutions: from supply chain management to individual logistics systems.

- Consulting
- Value Added Services
- Communication & Networking
- Logistics Fulfilment
- Logistics Modules
- Procurement



Quality – Security. Built-in.

Quality management without compromise

The integrated management system (IMS) encompasses quality control, information security, environmental protection, occupational health & safety.

- Certified Quality Management System
- Certified Environment, Health and Safety System
- Constant Monitoring of Processes





Suppliers

3PEAK

ALLIANCE MEMORY

apmemory

am

OSRAM

BOSCH

ED

BYD

COMUS

NELTA

Diotec Semiconductor

EFINIX

elmos

Ennostar

EPSON

ESMT / EliteMT

EVERLIGHT

FAGOR

FSP

聚辰半导体股份有限公司

GigaDevice

GOWIN

imm photonics

infineon

INSIGNIS

intel

ISOCOM

YAGEO

KIOXIA

KYOCERA

LASER COMPONENTS

LEDiL

LITEON

Littelfuse

LRC

MEDIATEK

muRata

nanopower

NANUK

NISSHINO

NORDIC

OMRON

Panasonic

PANJIT

YAGEO

RAMXEED

RECOM

REFOND

Rockchip

ROHM

SAMSUNG

SEGGER

SENSIRION

ShinDengen

STANLEY

sumida

swissbit

TDK

TOSHIBA

Transcend

Vincotech

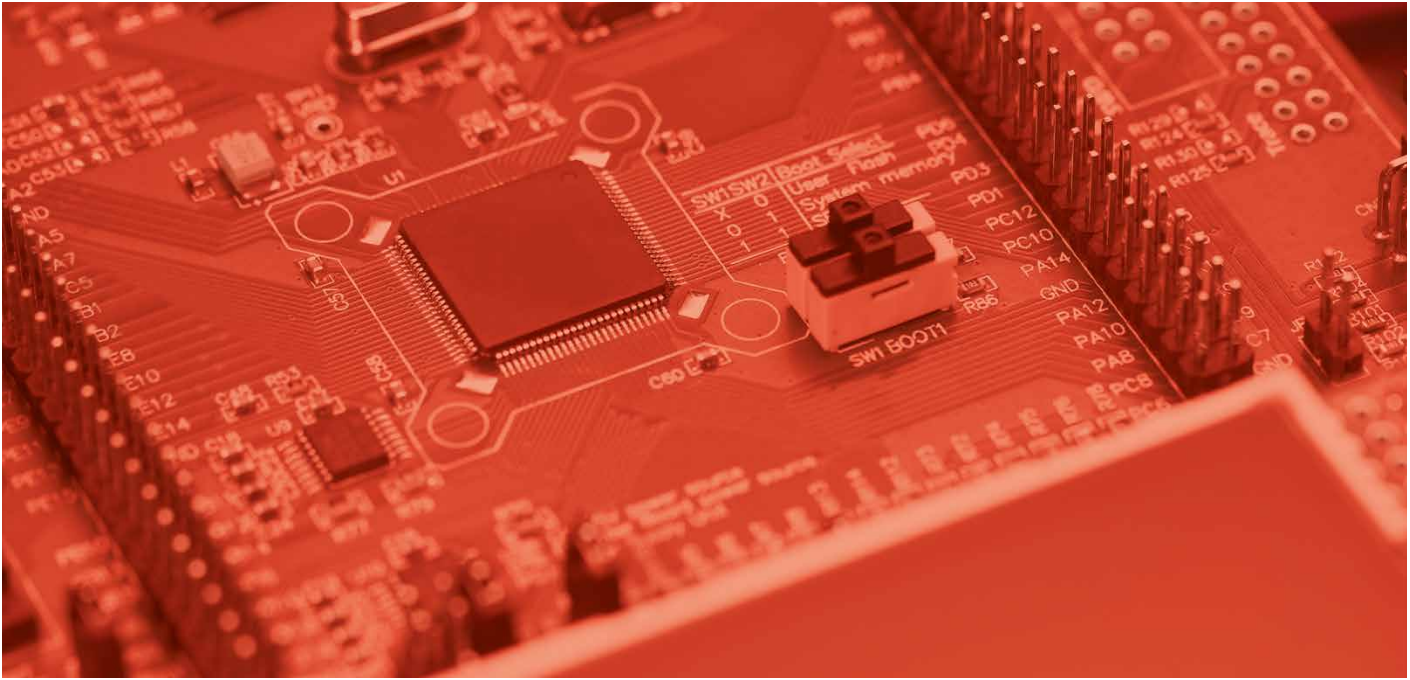
VISHAY

Wah Hing Transformer Mfg. Ltd.

YAGEO

YAGEO

Zentel



Discretes & Power Discretes

	BYD	Diotec	Fagor	Infineon	Kyocera AVX	LiteOn	Littelfuse	LRC	Panasonic	Pan Jit	Rohm	Shindengen	Toshiba	Vincotech	Vishay	XSEMI - YAGEO Group	YAGEO - YAGEO Group
Small Signal																	
Standard Bipolar Transistors		■		■				■		■	■		■				
RF- & HF-Transistors				■			■						■				
Bridge Rectifiers		■	■			■	■	■		■		■			■		
Trigger Diodes (DIAC)		■	■					■				■					
Zener Diodes		■	■			■		■		■	■		■		■		
Diodes																	
Schottky Diodes		■	■	■		■	■	■		■	■	■	■		■		
Fast Recovery Diodes		■	■	■		■	■	■	■	■	■	■	■		■		■
Silicon Carbide Diodes		■		■			■	■		■	■		■		■		
Protection Diodes		■	■	■		■	■	■		■	■		■		■		■
Standard Diodes/Rectifiers		■	■			■	■	■		■	■	■	■		■		■
Thyristors		■	■	■		■	■	■				■			■		
Triacs			■				■	■				■					
Power Discretes																	
MOS Transistors		■		■		■	■	■		■	■	■	■		■	■	
Darlington Transistors				■				■		■	■						
Silicon Carbide Transistors	■	■		■			■	■		■	■		■				
GaN HEMTs				■				■									
IGBT	■	■		■	■		■	■		■	■		■	■	■		

Power Management

	3Peak	AMS Osram	BYD	Delta	ELMOS	FSP	Gigadevice	Infineon	Kyocera AVX	Littelfuse	LRC	Murata	Nisshinbo	Nanopower	Nordic Semiconductor	PULSE - YAGEO Group	Recom	Rockchip	Rohm	TDK	Toshiba	Vincotech	Vishay	Wah Hing
Power Management IC																								
High/ Low side Switches								■					■						■		■		■	
MOS/IGBT Drivers	■		■				■	■		■			■						■		■		■	
Motor Drivers					■		■	■					■						■		■		■	
Switching Regulator	■				■		■	■			■		■		■		■	■			■		■	
LED Drivers		■			■		■	■		■			■						■		■			
Low Drop Voltage Regulators (LDOs)	■				■		■	■		■		■							■		■			
Power Modules (incl. IPM)			■				■	■	■										■		■	■	■	
Power Saving Ics (PSIC)														■										
System Basic Chips							■																	
Power Supply and Point of Load																								
AC/DC				■								■					■							■
DC/DC	■			■			■				■	■				■	■			■				
Switching Reg Module												■					■							
LED Driver Modules						■											■							



Analog ICs

	Diotec	Infineon	LRC	Nisshinbo	PANJIT	Rohm	Toshiba	Vishay
Amplifier								
Comparators				■		■		
Current Shunt Amplifier	■							
Operational Amplifier	■		■	■	■	■	■	
Logic								
Buffer			■		■	■	■	
Decoder						■	■	
I/O Expander				■	■		■	
Inverter							■	
Shift							■	
Analog Switches / Multiplexer			■		■	■	■	■
Converter & Digital Potentiometer								
A/D-Converter				■				
D/A-Converter				■		■		
Voltage References & Supervisor								
Supervisor				■		■		
Voltage References	■		■					
Timer								
Oscillator		■				■		
Real Time Clock		■				■		



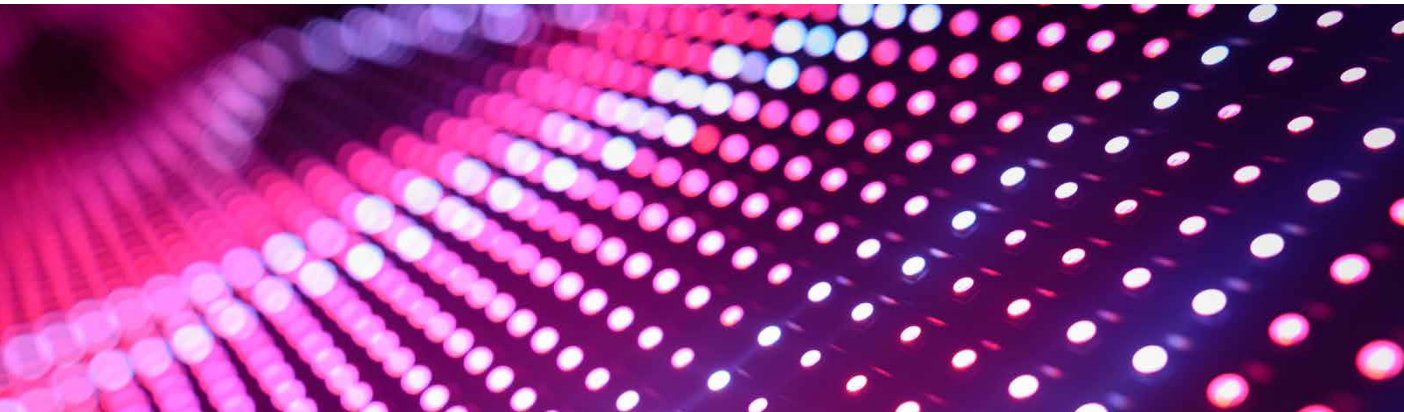
Digital ICs

	Alliance	AP Memory	Bosch Automotive	Efinix	ELMOS	Epson	ESMT	Giantec	Gigadevice	Gowin	Infineon	Insignis	Intel	KIOXIA	Littelfuse	LRC	MediaTek	Nanya	PANJIT	RAMXCEED	Rockchip	Rohm	Segger	Swissbit	TDK Micronas	Toshiba	Zentel
MCUs and MPUs																											
Microcontrollers MCU					■	■			■		■								■			■			■	■	
ARM Cortex-Mx					■	■			■		■						■										
Proprietary Cores 8, 16 and 32-bit						■					■																
Microprocessors MPU																	■				■					■	
ARM Cortex-Ax																											
Development Tools						■			■		■						■				■	■	■		■	■	
Programmable & Standard Logic																											
FPGA				■						■																	
Logic ICs																						■				■	
Memories																											
DDR	■						■					■						■									■
EEPROM								■								■						■					
Flash Memory	■						■	■	■		■			■													
eMMC Memory	■						■					■		■										■			
FRAM											■									■		■					
Pseudo SRAM	■	■									■																
SDRAM	■						■					■										■					■
SRAM	■										■																
Communication																											
CAN			■								■											■					
Ethernet													■														■
FlexRay											■																
Industrial Communication																											
KNX					■																						
LIN											■																
Media																						■					
RS (-232, -485, -422)																											
USB											■																
Fieldbus																											
Special Functions																											
ASSP & ASICs			■		■	■					■										■		■				■
Graphic Display Controller						■															■						■
Speech ICs						■																■					
Telecom ICs															■							■					



Optoelectronic Components

	ams Osram	BrightLED	Ennostar (formerly Lextar)	Everlight	IMM Photonics	Infineon	Isocom	Laser Components	Ledil	LifeOn	Littelfuse	Nisshinbo	Refond	Rohm	Samsung	Stanley	Toshiba	Vishay
Visible LEDs																		
Radial LED		■		■						■				■				■
SMD LED	■	■	■	■						■				■	■	■		■
Chip on Board LED	■	■	■	■						■				■	■	■		■
Highbrightness LED	■		■	■						■				■	■			■
Compact Light Source	■		■	■						■					■	■		
Secondary Optics					■				■							■		
Horticulture LED	■		■	■														
Automotive LED	■	■	■	■						■				■	■	■		■
UVA			■	■						■						■		■
UVC	■		■	■				■		■						■		■
Couplers																		
Standard		■		■	■		■			■	■		■				■	■
Highspeed				■			■			■	■						■	■
TRIAC				■			■			■							■	■
Solid State Relay				■		■	■			■	■						■	■
Laser																		
Standard Laserdiode	■				■			■						■				
High Power Laserdiode	■				■			■						■				
Lasermodule					■			■										
LiDAR Module	■																	
VCSEL	■		■					■						■				■
Infra Red																		
Emitter / Detector	■	■	■	■				■		■		■	■	■		■		■
Remote Control / IRDA		■		■						■			■	■				■
Fiber Optic				■	■			■									■	
LED Display																		
Standard		■		■						■				■		■		■



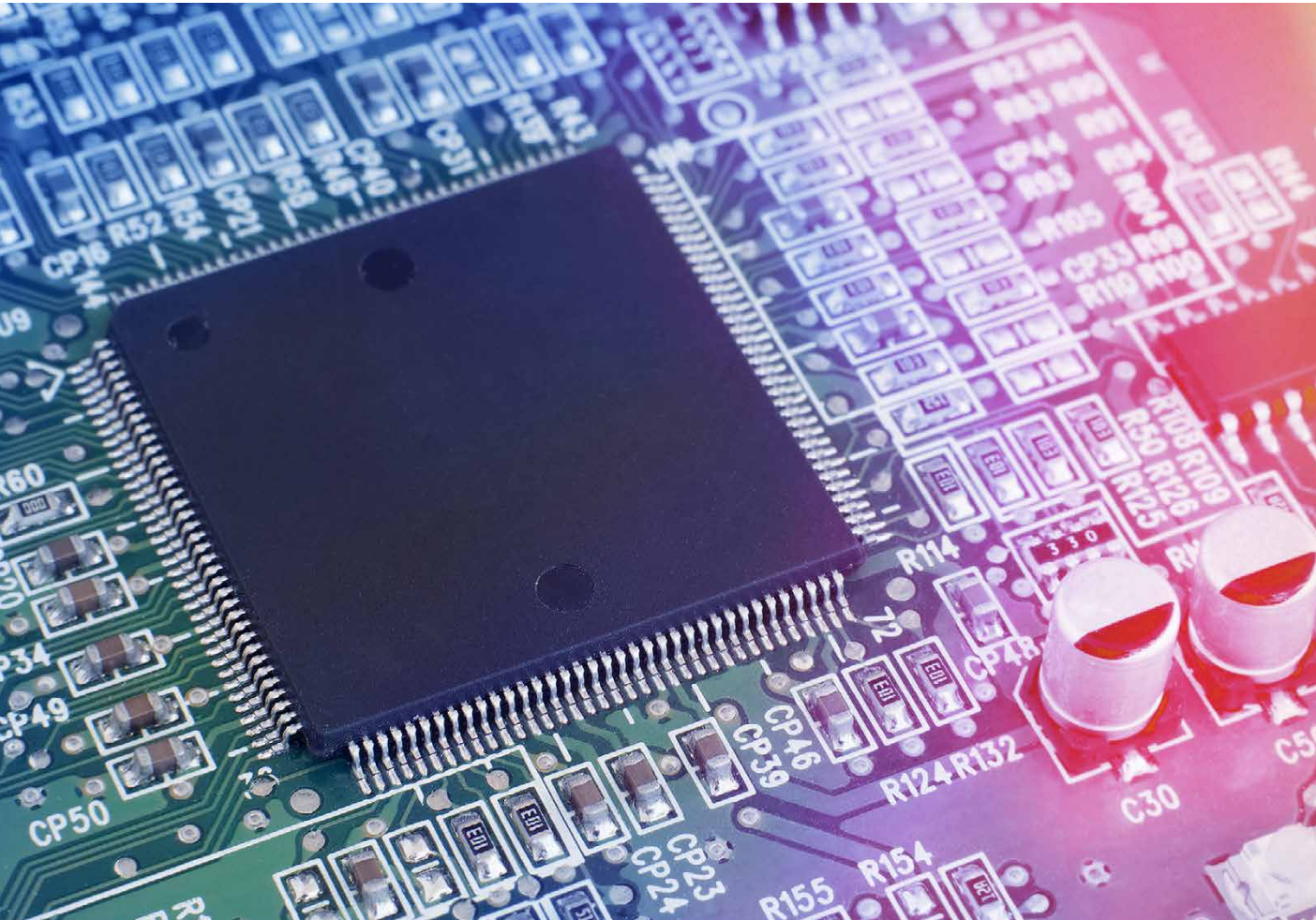
Sensors

	Bosch Automotive	Bosch Sensortec	BYD	Comus	ELMOS	Epson	Everlight	Infineon	KEMET- YAGEO Group	LiteOn	Littelfuse	Murata	Nisshinbo	Omron	AMS Osram	Panasonic	Rohm	Sensirion	TDK	TDK-Micronas	Toshiba	Vishay
MEMS																						
Absolute Orientation Sensors		■																				
Acceleration	■	■				■			■			■										
eCompass (Acceleration + Magnetometer)		■																				
Gyroscope	■	■				■						■										
IMU (Acceleration + Gyro)	■	■				■						■										
Microphone								■											■			
Environmental																						
Airflow														■				■				
Gas		■						■				■						■				
Humidity		■																■	■			
Pressure	■	■			■			■				■		■		■	■	■				
Temperature		■	■						■								■	■				
Particulate matter			■											■		■		■				
Optical																						
Ambient Light							■			■			■		■		■					■
Camera Modules			■											■								
Far Infrared / Infrared					■		■					■	■	■	■	■	■					■
Fingerprint			■																			
Image			■													■					■	
Proximity				■			■	■	■	■				■	■		■					■
Radar								■					■									
Reflective							■				■		■	■	■	■	■					■
Time-of-flight								■														
Transmissive							■				■			■	■		■					■
Ultrasonic				■	■							■								■		
Magnetic																						
Geomagnetic		■																				
Hall Linear – Non Programmable																				■		■
Hall Linear – Programmable								■												■		
Hall Switch – Single								■			■					■				■	■	
Hall Switch – Dual								■														
Hall Switch – Speed								■			■											
Hall Switch – Programmable																				■		
Magnetoresistive Switch												■										
Magnetoresistive 3D Switch												■										
Magnetoresistive Linear																						
Magnetoresistive 2D Sensor								■											■			
Multitaxis Hall								■												■		
TMR								■				■							■			
Current																						
Force	■																					
Hall based IC								■									■			■	■	
Sensor Modules			■						■													





Suppliers



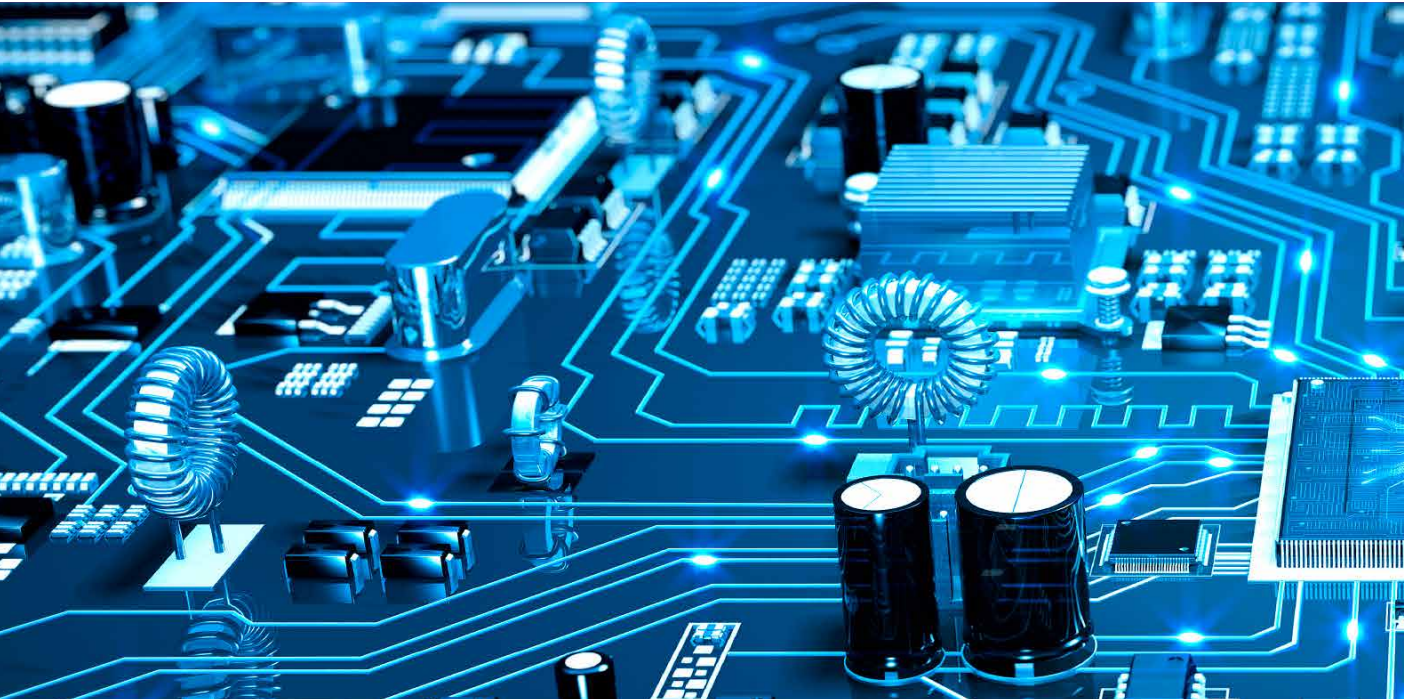
Capacitors

	BM	Chang	Eaton	ISKRA	Jamicon	KEMET- YAGEO Group	Korchip	Kyocera AVX	Maxwell	Murata	Panasonic	Rubycon	Samsung EM	Samwha	SECH	Su'scon	TDK	TDK Electronics	Vishay	WIMA	YAGEO - YAGEO Group
Electrolytic Capacitors																					
SMD Capacitors		■			■	■		■			■	■		■		■			■		■
Miniature Radial Capacitors		■			■	■					■	■		■		■		■	■		■
Large Can Radial Capacitors		■			■	■						■		■		■		■	■		■
Axial Capacitors						■										■		■	■		
Solid Polymer Capacitors						■					■					■		■	■		■
Polymer Hybrid Capacitors						■		■			■	■		■		■		■	■		
Electric Double Layer Capacitors (EDLC)																					
Flat Pack / Pouch Cells								■													
Coin / SMD			■			■	■														
Radial			■			■	■	■	■					■	■				■		
Screw / Weldable			■					■	■					■	■						
Modules			■				■	■	■					■	■					■	
Ceramic Capacitors																					
MLCC - Commodity						■		■		■			■	■			■		■		■
MLCC - High Cap						■		■		■			■	■			■		■		■
MLCC - High Volts						■		■		■			■				■		■		■
MLCC - High Reliability						■		■		■			■				■		■		■
MLCC - Automotive Grade						■		■		■			■				■		■		■
MLCC - Specialties (i.e. Array, HiQ, etc.)						■		■		■							■		■		■
Suppression and Safety Capacitor						■				■							■		■		
Leaded Capacitor - Multi Layer						■		■		■							■		■		
Leaded Capacitor - Single Layer						■				■									■		
Special Tech (i.e. Silicon, Solid State, etc.)						■		■		■							■		■		
Film Capacitors																					
SMD Capacitors						■		■			■									■	
Leaded Capacitors	■			■		■		■			■							■	■	■	
Interference Suppression Capacitors	■			■		■					■							■	■	■	
Power Capacitors	■			■		■		■			■							■	■	■	
Motor Capacitors	■			■		■												■			
Tantalum & Niobium Capacitors																					
SMD Standard Capacitors						■		■											■		
SMD Low ESR Capacitors						■		■											■		
SMD Polymer Capacitors						■		■			■		■						■		
SMD Conformal Coated Capacitors								■											■		
SMD Automotive & High Rel. Capacitors						■		■											■		
Leaded Capacitors						■		■											■		
Niobium Capacitors								■													



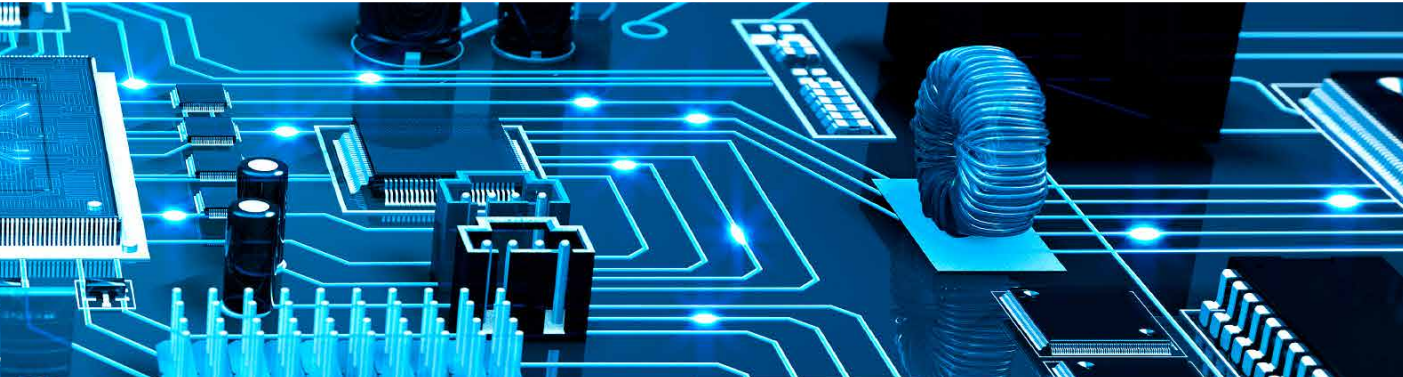
Resistors

	ASJ	Eaton	Joyin	KOA	Krah	Kyocera AVX	Littelfuse	Murata	NEXENSOS - YAGEO Group	Nidec	Panasonic	Piher	Rohm	Susumu	TDK	TDK Electronics	Viking	Vishay	VITROHM - YAGEO Group	YAGEO - YAGEO Group	YFC
Fixed Resistors																					
Thickfilm	■			■							■		■					■		■	
Thinfilm				■							■		■	■			■	■		■	
Shunt				■							■		■	■				■	■	■	
MELF																	■	■	■		
Leaded Resistors				■														■	■	■	
Low Power Wirewound Resistors				■	■													■	■	■	
High Power Wirewound Resistors				■	■													■	■	■	
Resistor Array	■																■			■	
Nonlinear Resistors																					
PTC Thermistors							■	■								■		■			
NTC Thermistors			■			■	■	■			■				■	■		■		■	
Thermistor Probes			■				■									■		■		■	■
Platin Sensors				■			■		■									■			
SMD Varistors		■	■			■	■				■				■	■		■			
THT Varistors			■			■	■				■					■		■		■	
Variable Resistors																					
Potentiometers						■					■							■			
Trimmers										■								■			



Inductors, Timing Devices and Acoustic Components

	3L	Eaton	EPSON	HKC	Jauch Quartz	KEMET - YAGEO Group	Kingstate	Knighter-Inductive	Kyocera AVX	Murata	Panasonic	PUJ Audio	PULSE - YAGEO Group	RECOM	Sumida	TDK	TDK Electronics	TPEG	Vishay	Wah Hing
Chokes																				
Power/RF/Storage Chokes	■	■				■		■		■	■		■		■	■	■		■	
Common Mode Chokes	■	■				■		■		■			■		■	■	■			
Current Sense Transformer								■		■			■		■		■			
Transformers																				
RF/Power Transformers	■	■						■		■			■	■	■		■	■		■
Telecom & Datacom Transformers								■					■				■			
Ferrites																				
Ferrite Beads	■					■		■		■			■			■				
EMI Filters						■				■						■	■			
Ferrite Cores						■				■					■		■			
Timing Devices																				
SMD Resonators										■										
Leaded Resonators										■										
Crystals			■	■	■				■	■										
Oscillators			■	■	■				■	■										
Real Time Clocks			■						■											
Filters																				
Ceramic Filters										■										
SAW Filters			■						■	■							■			
Acoustic Components																				
Piezo Buzzers						■			■		■					■				
Magnetic Buzzers						■			■		■					■				
Microphones						■					■					■				
Speaker/Receiver						■					■					■				





Suppliers

ADAME
TECH

ADDA

ALYSIUM

Amphenol

ASSMANN
components
A company of BCS

impe

C&K
Littelfuse
NOW PART OF

COMUS

CONQUER

COTO
Technology

DELTA

DIPTRONICS

EATON
Powering Business Worldwide

EM3

EVE Energy

finder

FCL
COMPONENTS

fischer elektronik
to cool to protect to connect

GCT

HONGFA

INNO TAPE
Der Konverter

JAE

JAMICON

KEYSTONE

knitter-switch

KYOCERA
AVX

Littelfuse

Lumberg
passion for connections

MECHATRONICS

molex

muRata
INNOVATOR IN ELECTRONICS

NEXEM

N

OMRON

Panasonic
INDUSTRY

PANCON
CONNECTORS

precip-dip

YAGEO
PULSE

repol S.A.

renata
batteries

Soft
A company of TEP SolarEnergies

SAMSUNG SDI

SAMSUNG

SAURO
ELECTRONIC CONNECTORS
by the way...

SCHURTER
ELECTRONIC COMPONENTS

SIBA
Sicherungen | fuses

sumida

TDK

TENPOWER

YAGEO
YAGEO Group



Batteries

	Adam Tech	binder mpe	EEMB	EVE Energy	Keystone	Murata	Panasonic	Renata	Soft (TotalEnergies)	Samsung SDI	Tenpower
Alkaline (Cylindrical & 9V Block)											
Lithium Metal coin cell (Primary & Secondary)											
Lithium Metal Cylindrical Cell (Primary)											
Lithium Ion Polymer											
Lithium Ion (Cylindrical Cell)											
Battery Holder (THM & SMT)											

Thermal Management

	ADDA	Assmann WSW	Delta	Fischer Elektronik	InnoTape	Jamicon	Mechatronics
AC Fans							
DC Fans							
EC Fans							
CPU Cooler							
Blowers							
Heatsinks							
Heat Contacting Foils							
Heatpipes							
Housing							

Fuses

	Conquer	Eaton	Littelfuse	Schurter	Siba	Yageo - YAGEO Group
5x20 / 6.3x32						
Automotive Fuses						
Subminiature Fuses						
SMD Fuses						
Resettable Fuses						
Fuse Holders						
High Voltage Fuses						

Relays

	Comus	Coto	FCL Components	Finder	HongFa	Littelfuse	Nexem	NF Forward	Omron	Panasonic	Relpol	TDK
Signal												
Power												
Automotive												
Security												
Timer												
Sockets												
MosFet-Relays												
SSR's												
Reed Contacts												
Reed Relays												
Mercury Relays												
Proximity Switches												

Switches

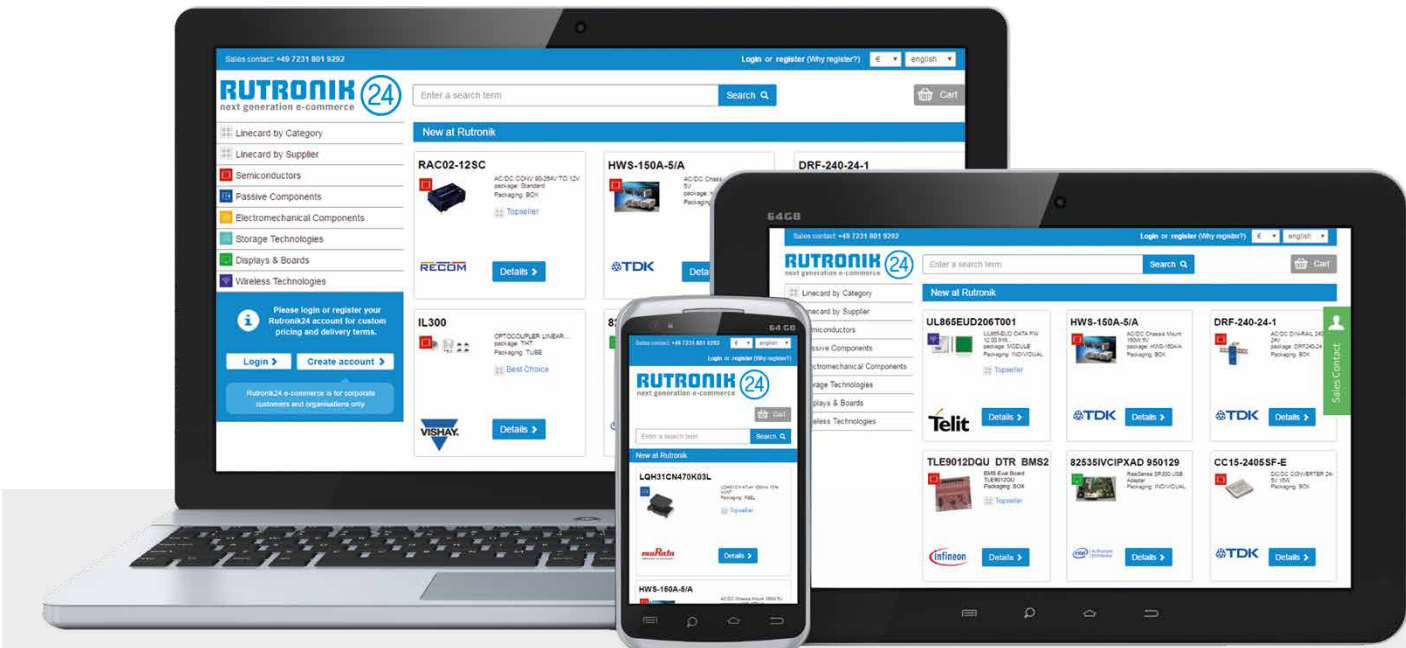
	C&K Littelfuse	Diptronics	Knitter-Switch	Omron	Panasonic	Schurter
Tact Switches						
DIP Switches						
Slide Switches						
Pushbutton Switches						
Rotary Switches						
Rotary Coded Switches						
Encoder Switches						
Toggle Switches						
Navigation Switches						
Industrial Switches						
Rocker Switches						
Detection Switches						
Microswitches/Snapacting S.						
Membrane & Rubber Keypads						



Interconnect Solutions

	Adam Tech	Alysium	Amphenol	Assmann WSW	binder mpe	GCT	JAE	Kyocera AVX	Lumberg / Lutronic	Molex	Pancon	Preci-Dip	PULSE - YAGEO Group	Sauro	Sumida
Connectors															
Board-to-Board	■		■	■	■	■	■	■	■	■	■	■			
Wire-to-Board	■		■	■	■	■	■	■	■	■	■	■			
Wire-to-Wire	■		■	■			■		■	■					
Crimp Terminals	■		■	■	■		■			■					
FFC/FPC	■	■	■				■	■		■					
IC Socket	■			■	■							■			
USB	■		■	■			■			■			■		
Audio/Video	■		■	■			■		■	■					
D-Sub	■		■	■						■					
Memory and SD Card	■		■	■		■	■	■		■					
Modular Jacks	■		■	■						■			■		
Circular Connectors	■		■	■					■	■					
Coaxial Connector	■	■	■			■				■					
EV Charging	■		■				■								
Terminal Blocks	■		■	■					■	■				■	
Customized Connectors	■		■	■	■	■	■	■							
Tools Crimp			■				■		■	■					
Cable & Cable Assembly															
Round Cable		■	■	■											
Flat Cable				■											
FFC/FPC	■	■	■	■				■		■					■
Standard Assembly	■	■		■			■			■					
Customized Assembly	■	■	■	■		■	■			■					■
EV Charging Cable	■		■				■								

Next generation e-commerce



e-commerce made easy

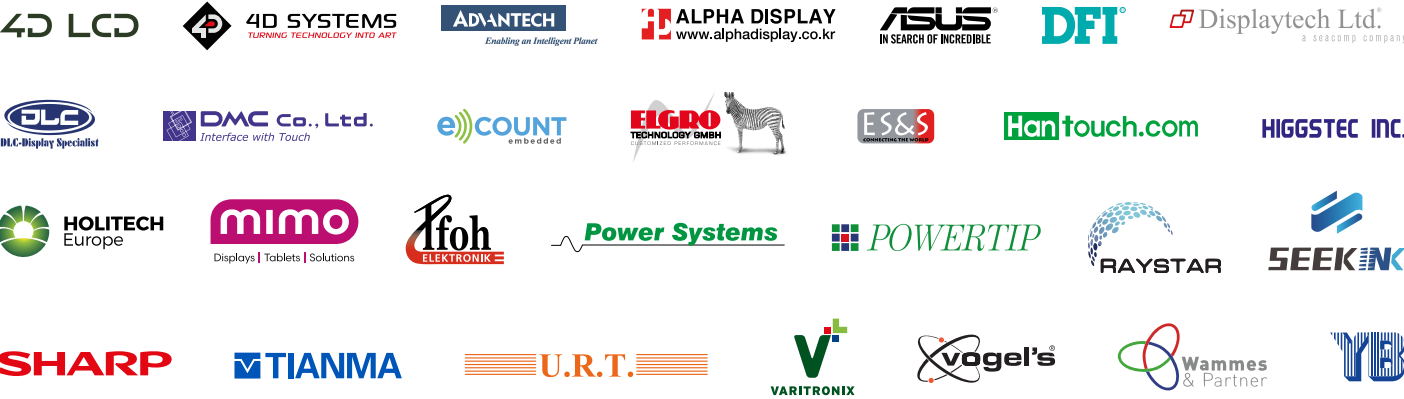
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Suppliers



TFTs

	4D Systems	Advantech	Alphadisplay	Displaytech	DLC	Ecount	Holitech	Mimo	Powertip	Raystar	Sharp / NEC	Tianma	URT	Yeebo
1,5" - 2,4" Diagonals	■			■	■		■	■	■	■		■	■	■
2,5" - 3,4" Diagonals	■			■	■		■	■	■	■		■	■	■
3,5" - 5,7" Diagonals	■			■	■		■	■	■	■		■	■	■
5,7" - 7,0" Diagonals	■			■	■		■	■	■	■		■	■	■
8,4" - 15,0" Diagonals	■			■	■		■	■	■	■		■	■	■
15,1" - 21,3" Diagonals			■	■	■		■	■	■	■		■	■	■
21,4" - 42" Diagonals		■	■	■	■	■	■	■	■	■	■	■	■	■
42" - 65" Diagonals		■	■		■	■					■			

Open Frames

incl. Controller, Cable, PowerSupply

	Advantech	Alphadisplay	Mimo
7" - 32"	■	■	■
37" - 82"	■	■	

Passive Displays

	4D LCD	Advantech	Displaytech	DLC	Holitech	Powertip	Raystar	Seekink	Tianma	URT	Varitronix	Yeebo
Character- and Graphic Module			■	■	■	■	■		■	■	■	■
Customized Module / Panel			■	■	■	■	■		■	■	■	■
OLED	■			■		■				■		■
ePaper	■	■						■				
Turn Key Solutions	■	■	■	■	■	■	■		■	■	■	■

Smart Panels

incl. Controller

	4D Systems	Alphadisplay	Displaytech	Mimo	Powertip	Raystar	URT
0,96" - 1,8" Diagonals	■		■		■	■	
1,8" - 7" Diagonals	■		■	■	■	■	■
7" - 15" Diagonals	■						
15" - 19" Diagonals		■		■	■		
High Bright Versions	■	■		■	■		■

Special TFT Applications

	4D LCD	DLC	Holitech	Mimo	Powertip	Tianma	URT	Yeebo
Brightness >= 500 cd/m²	■	■	■	■	■	■	■	■
Enhanced Temperature Range		■	■	■	■	■	■	■
Rough Environment			■	■	■	■	■	■

Monitors & LED Walls

	4D LCD	4D Systems	Advantech	Alphadisplay	Asus	DFI	Ecount	Holitech	Mimo	Sharp / NEC
Professional Monitor			■		■	■	■		■	■
Gaming Monitor			■	■	■		■		■	■
USB Monitor / Tablet									■	
Bar Type			■			■	■	■	■	
Open Frame Display	■	■	■	■		■	■		■	
Collaborative Solutions										■
Beamer										■
LED Walls/Panels										■

Touch-Screen Panels & Controllers

	DLC	DMC	Hantouch	Higgstec	Holitech
Four+five wire resistive Touch Panel	■	■	■	■	■
Surface Wave Touch Panel			■	■	
Capacitive Touch Panel		■	■	■	■
Infrared Touch Panel			■	■	



Display & Monitoring Accessories

	Elgro-Technology	ES&S	Mimo	Pfoh	Power Systems	Powertip	Sharp / NEC	Tianma	URT	Vogel's	Wammes & Partner Solution partner	Yeebo
Standard Cables and Connectors		■	■	■								
Customer-specific Cables		■		■								
Inverter					■							
Backlight						■		■	■			■
Trouble Shooting											■	
Beamer accessoires & Computing solutions							■					
Wall Mount Solutions			■							■		
Digital Signage Player							■					
Zebra Connectors (Elastomeric)	■											





Suppliers



Boards

	Adlink	Advantech	ASUS	Cherry	DFI	F&S	Kontron	Seco	Via
Industrial Mainboards	■	■	■		■		■		■
Server Mainboards		■	■		■		■		
Workstation Mainboards			■		■		■		
Desktop Mainboards			■				■		
Computer on Modules	■	■	■	■	■	■	■	■	■
Base- / Evaluationboards	■	■	■	■	■	■	■	■	■
Single Board Computer	■	■	■	■	■	■	■	■	■
Slot Single Board Computer		■			■				
Backplanes		■			■				
Blade Computing		■					■		

Wired Communication

	Adlink	Advantech	Cherry	Intel	Kontron	Seco
Network Cards	■	■		■	■	■
Network Switches / KVM Switches		■			■	
Industrial Bus & Protocol Solutions	■	■				
Wired Long-Range Network Solutions			■			

Accessories

	Aaeon	Adlink	Advantech	ASUS	AXELERA AI	Cocom	DELTA	DFI	ECOUNT	EKL	F&S	FSP	HSM Zamecki	iEi	Intel	Kontron	Seco	Via
Digital LCD Controllers (Scaler)									■									
Artificial intelligence Accelerator Modules & Cards	■		■	■	■						■			■				
Controller Cards (Digital / Analog / Mixed Signal)			■	■											■			
Industrial Chassis / Cases			■	■				■								■		
Graphic Cards		■	■	■											■			
HPC Cards			■	■											■			
Coolers & Heatspreaders			■	■				■		■	■		■		■	■	■	■
Cables & Adapters			■	■		■	■	■	■	■	■	■	■		■	■	■	■

Embedded Systems

	Adlink	Advantech	ASUS	DFI	EMKO	Extra Computer	Kontron	Seco	Via
Embedded Box-PCs	■	■	■	■	■	■	■	■	■
Embedded Panel PCs / Touch Panel PCs	■	■	■	■	■	■	■	■	■
Desktop PCs		■	■	■	■				
Mobile PCs / Ind. Tablet PCs / Comp.-Sticks	■	■				■			
Embedded Servers		■				■	■		

Processors

	Intel
Mobile Processors	■
Desktop Processors	■
Server Processors	■
Chipsets	■

Suppliers



Storage

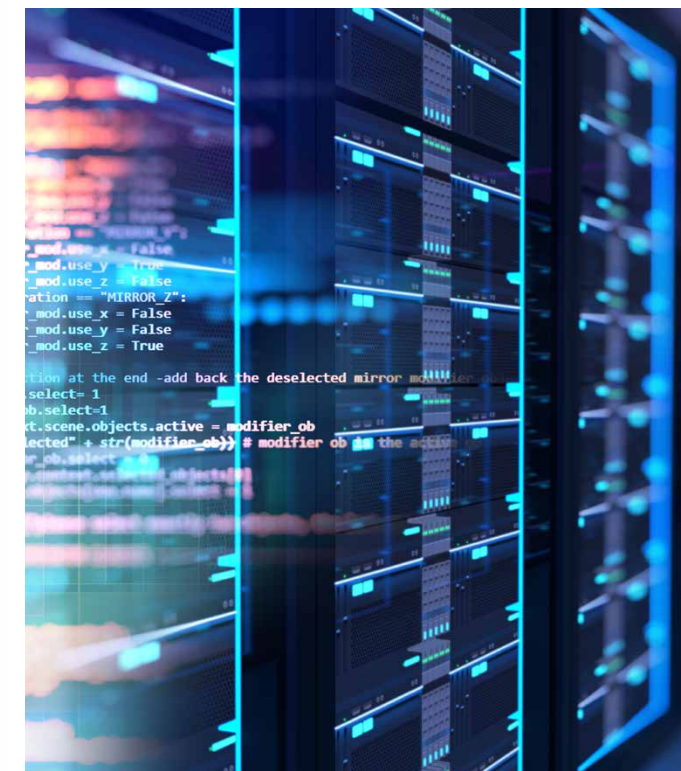
	Advantech	Apacer	ATP	GoodRam	KIOXIA	Swissbit	Teac	Toshiba	Transcend
Memory Modules									
DDR1		■	■	■					■
DDR2		■	■	■					■
DDR3	■	■	■	■					■
DDR4	■	■	■	■					■
DDR5	■	■	■	■					■
Flash-Memory									
SD/microSD		■	■	■	■	■			■
Compact-Flash		■	■	■		■			■
CFast	■	■	■	■		■			■
CFexpress		■	■	■		■			■
Flash-Module (USB/PATA/SATA)		■	■			■			■
USB-Sticks		■	■	■		■			■
SSD 2.5"	■	■	■	■	■	■			■
mSATA	■	■	■	■	■	■			■
M.2	■	■	■	■	■	■			■
Add-in Card (AiC)					■				
U.2 SSD		■	■		■				■
U.3 SSD		■			■				
EDSFF		■	■		■	■			
Hard Disc Drive									
2.5"								■	
3.5"								■	
extern USB								■	■
Optical Drives									
CD-Drives for Audio/CE							■		
DVD-Drives							■		
BluRay-Drives							■		
Medical Recorder							■		
Accessories									
Card Reader		■	■	■					■

Power Supplies

	Advantech	DELTA	DFI	FSP	Kontron
Industrial PC (IPC)	■	■		■	
Redundant Power Supplies		■		■	
AC/DC Adapter	■		■		■
DC/DC Converters		■	■	■	
Uninterruptable Power Supplies (UPS)				■	

Industrial Cameras

	Advantech	Cocom	RealSense
Camera Systems	■		■
Camera Modules			■
Vision Processors			■
Camera Accessories		■	■





Suppliers



Bluetooth

	Asus	EnOcean (Dolphin)	FCL Components	GARMIN	Gigadevice	Infineon	Insight SiP	iVativ	Minew	Murata	NORDIC	Panasonic	ROHM	SILEX	TDK	TELIT
Bluetooth Classic Modules			■										■			
Bluetooth LE (Low Energy) Modules		■	■	■		■	■	■	■	■	■	■	■	■	■	■
Bluetooth Dual Mode Modules			■			■				■		■				
Bluetooth Dual Mode System on Chips						■										
Bluetooth LE (Low Energy) System on Chips					■	■					■					
Bluetooth devices (Beacons, Key Finder, Dongles etc.)	■		■				■	■	■							

GSM/GPRS/UMTS/LTE/NB-IoT/5G GNSS

	2J Antennas	Advantech	GNS	Infineon	iVativ	Minew	Murata	NORDIC	TELIC	TELIT	Unicore
GSM/GPRS/UMTS/LTE/NB-IoT/5G											
Modules							■	■		■	
Cards		■								■	
Terminals		■			■				■	■	
With integrated GPS		■						■	■	■	
SIM-Card Connectivity										■	
GNSS											
GPS/GNSS Modules			■			■	■			■	■
GPS/GNSS Cards		■									
GPS/GNSS Chips				■							■
Ultra High Precision										■	■
Modules with integrated Antenna	■		■							■	



Proprietary Wireless

	Advantech	EnOcean (Dolphin)	GARMIN	Infineon	Insight SiP	Minew	NORDIC	Panasonic	ROHM
Receiver Chips				■					
Transceiver Modules		■	■		■	■		■	
Transceiver Chips				■			■		■
Transmitter Chips				■			■		
Gateway Solution	■					■			
USB Sticks		■	■			■	■		

Long Range Wide Area Network

	Advantech	Insight SiP	iVativ	Kyocera AVX	Minew	Murata
LoRa	■	■	■	■	■	■
Sigfox						■

RFID/ NFC

	FCL Components	GARMIN	GIANTEC	IDTRONIC	Insight SiP	Minew	Murata	NORDIC	ROHM
Passive Reader Modules	■		■	■					■
Passive Transponder Chips			■				■		
Passive Transponder Devices			■	■			■		
Passive Reader Chips			■						
NFC Pairing Chip		■			■	■	■	■	

Hardware Security Solutions

	Infineon
Authentication	■
Trusted Computing	■

ZigBee

	EnOcean (Dolphin)	FCL Com-ponents	GARMIN	Infineon	Insight SiP	iVativ	Minew	NORDIC	Panasonic	ROHM
System on Chips				■				■		
Modules	■	■	■		■	■	■		■	■

WIFI

	Advantech	Asus	FCL Com-ponents	Infineon	Insight SiP	intel	iVativ	Minew	Murata	NORDIC	Panasonic	ROHM	SILEX	TELIT
Modules WiFi a/b/g/n/ac			■		■	■	■	■	■		■	■	■	■
Modules WiFi 6 (ax)					■	■		■	■		■		■	■
Modules SubGHz-WiFi (ah)														■
Cards WiFi a/b/g/n/ac		■				■	■							■
Cards WiFi 6 (ax)						■					■			
Chips WiFi a/b/g/n/ac/ax				■					■	■				
Access Points/ Gateways/ Routers	■	■					■	■						■

Accessories

	2J Antennas	Advantech	CHINMORE	EnOcean (Dolphin)	GCT	Kyocera AVX	Molex	PULSE - YAGEO Group
Adapter Cables	■	■	■		■		■	■
Antennas (internal)	■		■			■	■	■
Antennas (external)	■		■			■	■	■
Antennas (surface mounted)	■		■			■	■	■
SIM-card Holders					■	■	■	
Energy Harvester				■				

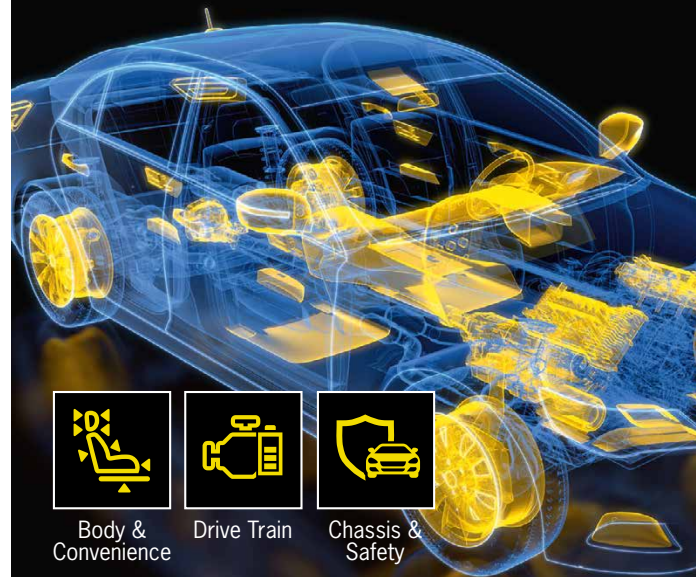
Special Wireless Technologies

	GNS
ADS-B	■
TMC	■

UWB

	Insight SiP	Minew	Murata	PULSE - YAGEO Group
Modules	■	■	■	■

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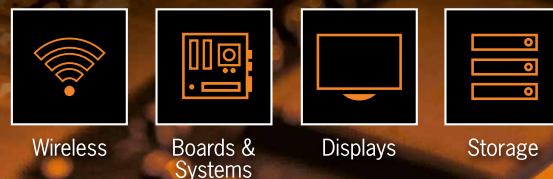
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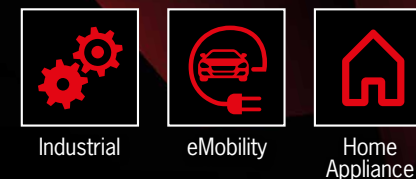
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