MICRODIS
COMPETENCE & RELIABILITY

BULGARIA@MICRODIS.NET
CROATIA@MICRODIS.NET
CZECH@MICRODIS.NET
ESTONIA@MICRODIS.NET
FRANCE@MICRODIS.NET*
GERMANY@MICRODIS.NET
HUNGARY@MICRODIS.NET
LATVIA@MICRODIS.NET
LITHUANIA@MICRODIS.NET
POLAND@MICRODIS.NET
ROMANIA@MICRODIS.NET
RUSSIA@MICRODIS.NET
SERBIA@MICRODIS.NET
SLOVAKIA@MICRODIS.NET
SLOVENIA@MICRODIS.NET
UKRAINE@MICRODIS.NET

EUROPE@MICRODIS.NET

SERVICES FOR OEMS AND CEMS IN EASTERN EUROPE

I Design-in support - well trained, competent engineers
I Trainings - common actions with our franchise partners
I Programming of oscillators, ICs, etc.
I Harness making according to specification
I Supply of more than 500 000 components
I EDI and e-commerce on www.microdis.net
I Online Order Tracking
I Consignment stock - central as well as local possibilities

Supply of small quantities by catalogue distribution

*Electromechanical Competence Center for France

Turkey
Turkey@microdis.net
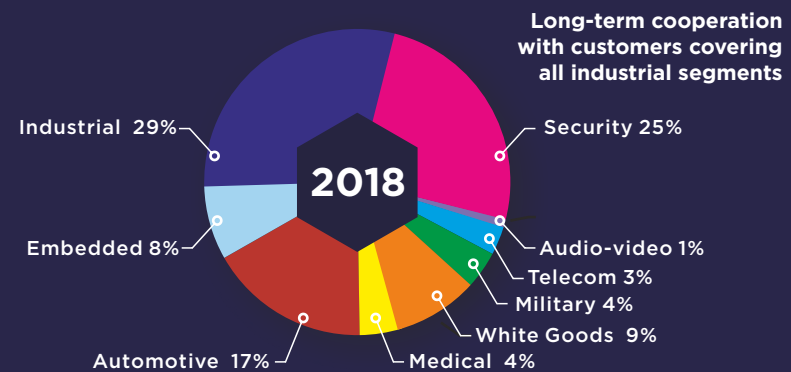
Currently the Microdis Group employs over 100 people, with a large number of electronic engineers, mostly involved in sales and support.

The quality of our management system is confirmed by ISO 9001:2015.

Long-term cooperation with customers covering all industrial segments

2018

Industrial 29%
Security 25%
Audio-video 1%
Telecom 3%
Military 4%
White Goods 9%
Medical 4%
Automotive 17%
Embedded 8%

TR 6.11

WIRELESS
RFID, ANTENNAS, HF CONNECTORS, ADAPTERS, ACCESSORIES

SEMICON
TRANSISTORS, DIODES, ICS, QUARTZES AND OSCILLATORS

E-MECH
ENCLOSURES, HEATSINKS, CONNECTORS, HARNESSES, SWITCHES

OPTO
LOW, MID AND HIGH POWER LEDS, COBS, LED MODULES, LENSES DRIVERS, DIPLAYS AND OPTOCOUPLERS

EMBEDDED
INDUSTRIAL FANLESS PCS, ALL-IN-ONE PANELS, EMBEDDED BOARDS, DISPLAYS WITH TOUCH - SCREEN

HARNESS MAKING & TOOLS

ONE STOP SHOP
COMPREHENSIVE PORTFOLIO WITH MILLIONS OF COMPONENTS RELIABLE SOURCE FOR MASS PRODUCTION, AS WELL AS FOR FEW PIECES PROTOTYPING

30 YEARS ANNIVERSARY

The leading technical distributor of electronic components acting in Eastern Europe.

With years of experience and built up trust on the market.

Reliably providing local logistic and technical support to the most demanding applications.
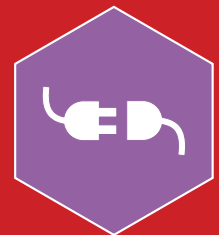
ADVANCED EDI SYSTEM

I Access to components base with individual, quantity dependent, pricing

I Stock information Downloadable file with components base

I Online ordering

I Order status and order/invoice

I History information

I Individual account for each employee

MICRODIS ELECTRONICS

WROCLAW, Poland

MICRODIS BUSINESS MODEL

I Franchise Distribution for a selected number of manufacturers
I Special Mass Market Distribution by Internet and Catalogue
I Network Partnership with suppliers and customers

Sales network covering all East European markets

2018

POLAND 27.3%
CZECH 15.1% REPUBLIC
HUNGARY 12.8%
BALTIC 12.3% (LT, LV, EE)
BULGARIA 5.2%
SLOVAK REP. 4.2%
SLOVENIA 0.5%
TURKEY 2.5%
UKRAINE 1.2%
FRANCE 2.8%
RUSSIA 15.4%
OTHER 0.7%
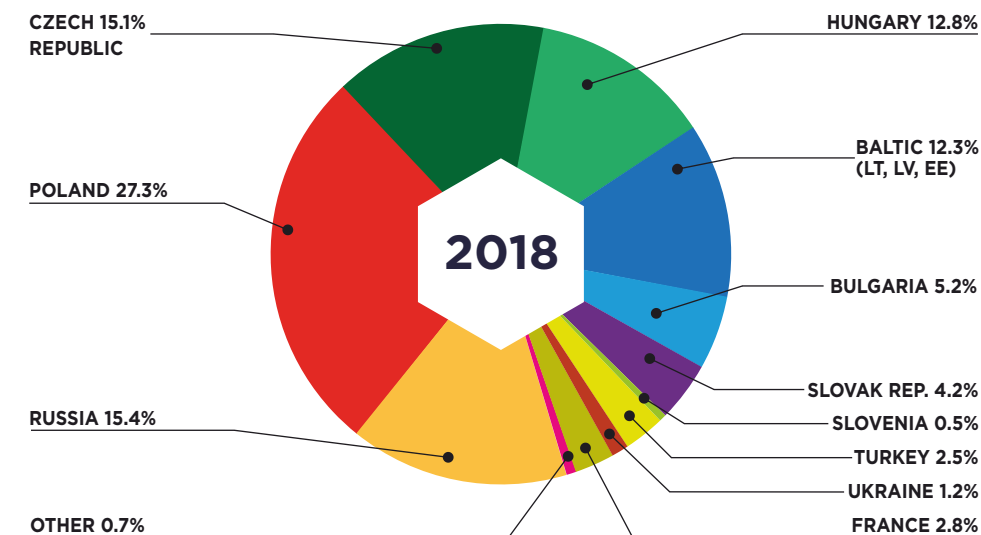
FANLESS INDUSTRIAL COMPUTERS

Rugged Box PCs for automation industry
Many options of I/O interfaces to find the optimal solution for the application, highest reliability because of fanless design & high quality components

I Long life and availability
I Strong metal housing
I Wide operating temperature
I Anti-vibration & shock
I Dust resistant
I Embedded OS
I Wide input voltage range
I Low power consumption
I Compact size

NEXCOM **GERSYS**

Full HD & Ultra HD Digital Signage Solutions
I Wide range of industrial media players designed to 24/7 operation
I Perfect graphic performance
I Various video outputs

NEOUSYS TECHNOLOGY

Powerful Box PCs with optional external GPU
I Machine vision controllers
I Train & in-vehicle rugged computers
I Surveillance platforms
I -25 - 70°C extended operating temperature
I Patented expansion Casette and MezIO modules

AAEON

All-In-One Panel PCs
I Many sizes available
I Resistive or Capacitive Multi-touch

In-vehicle computers and railway displays for driver's cabin
I Variety wireless communication: GPS, GSM, WLAN
I Ignition control
I Easy adaption to car power system
I Railway EN50155 certificate

ASRock — Industrial —

Embedded boards
I Cost-effective reliable mini-ITX & 3.5" boards
I Latest Intel Atom/Celeron/Pentium/i3/i5/i7 processors
I Only Japan-made high-quality Conductive Polymer Capacitors used
I Up to 15 years product availability
I Various form factors
I Extended operating temperature

iiyama ProLite

Wide range of high quality monitors
I Great viewing angles and exceptional color clarity
I AMVA3 / MVA / IPS panel technology with Full HD & Ultra HD resolution
I Projective Capacitive, Infrared or Optical Multi-Touch Technology
I Durable & professional design
I Open frame mounting
I Compatible with NEXCOM OPS players

WIRELESS ACCESSORIES

GSM antennas
Embedded:
I PCB & ceramic
External:
I Screw, sticker or magnetic mount
I Connector and cable upon request
I Robust
I Combo available

GPS/GLONASS antennas
Embedded:
I Active patch
I Passive patch
I Omnidirectional

External:
I Connector and cable upon request
I Robust
I Omnidirectional
I Combo
I L1/L2/E5 GNSS bands

Iridium antennas
I Internal & external
I High performance
I Robust
I GPS+Iridium combo (M1600-HCT)

WiFi, Bluetooth, ISM antennas
I Internal & external
I Combo versions available (2 or more outputs)

HF connectors and adapters
I SMA, MCX, MMCX, FME
I THT, SMD & edge mounted
I TConnector and adapter customisation possible

ISO Cards, Key Fobs, Wrist Bands, PET laminates RFID system solutions for: access control, animal identification (pet, bird and livestock), Industry and logistic (also KEG and waste ID)

AEG ID INTELLIGENTIFICATION™
LUX

ELECTROMECHANICAL

GCT Global Connector Technology

Reliable interconnect products
I SIM / Nano SIM connectors
I Memory card connectors
I USB connectors
I Board to board connectors
I FFC connectors
I Dedicated white connectors for LED boards

DC Power Jacks

Modular Jacks

Overmolded cable assemblies

CAMDENBOSS CONNECT. ENCLOSE. INNOVATE.

Components
I Terminal Blocks, PCB mounted, pluggable and other interconnection solutions
I Fuses & Fuse-holders
I Batteries
I LEDs & Indicators
I Miniature switches,
I Limit & Safety switches
I DIN Rail mounted interface modules
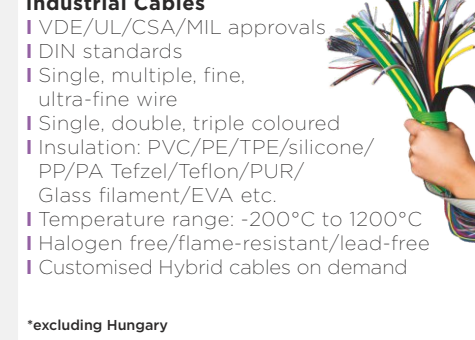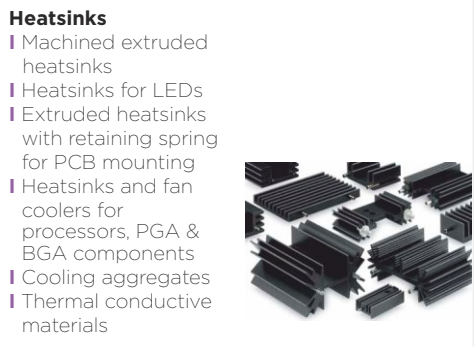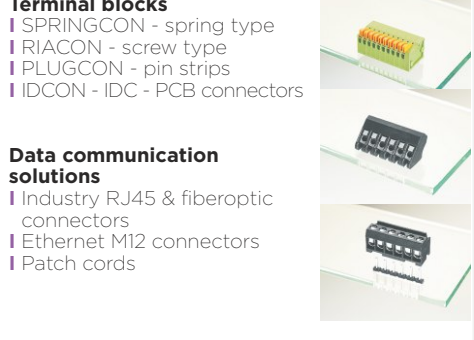I Control products and transformers

Enclosures
I Universal housings
I Hand-held enclosures
I Die-cast boxes
I Potting boxes
I Desktop cases
I Instrument cases
I DIN rail enclosures or interface supports

Full customisation service for all enclosures
With custom colours, surface coating & RFI shielding, engraving & silk-screening, labels & membrane Keypads, as well as milling for all types of connectors and control components

Custom enclosures
Designed, prototyped and manufactured to specific and exacting requirements with rapid lead-times using Flat Sheet Plastic Technology process, a solution for unique enclosure requirements without tooling costs.

Week 1   Week 2   Week 3-4

Terminal blocks
I SPRINGCON - spring type
I RIACON - screw type
I PLUGCON - pin strips
I IDCON - IDC - PCB connectors

Data communication solutions
I Industry RJ45 & fiberoptic connectors
I Ethernet M12 connectors
I Patch cords

METZ CONNECT

fischer elektronik

Heatsinks
I Machined extruded heatsinks
I Heatsinks for LEDs
I Extruded heatsinks with retaining spring for PCB mounting
I Heatsinks and fan coolers for processors, PGA & BGA components
I Cooling aggregates
I Thermal conductive materials

Cases
I Miniature aluminum cases
I Combination cases
I Desk consoles and shell cases
I 19" system cases

Connectors
I High precision board-to-board connectors
I IDC connectors
I D-SUB connectors
I DIL PGA, PLCC sockets

Services
I Precision CNC machining of heatsinks, cases, front panels
I Powder coating
I Screen printing
I YAG laser engraving

MK MEDI Kabel

Industrial Cables
I VDE/UL/CSA/MIL approvals*
I DIN standards
I Single, multiple, fine, ultra-fine wire
I Single, double, triple coloured
I Insulation: PVC/PE/TPE/silicone/ PP/PA Tefzel/Teflon/PUR/ Glass filament/EVA etc.
I Temperature range: -200°C to 1200°C
I Halogen free/flame-resistant/lead-free
I Customised Hybrid cables on demand

*excluding Hungary

I Wire to PCB connectors
I PCB to PCB connectors
I Wire to wire connectors
I Jumpers
I Memory cards and PCMCIA connectors
I Serial, parallel, USB
I Wide range of terminals
I Strips and cables
I Customized harness

JST The Quality Connection

LEAR CORPORATION

ex GROTE & HARTMANN

Standard and custom terminal and connector systems
I From advanced research, development and tooling construction, to extensive manufacturing expertise
I Terminal systems starting at 0.5 mm
I Wire cross section starting at 0.08mm²
I Sealed and unsealed solutions
I Reliable electrical contact due to spring loaded terminal system designs
I Compact inline solutions with various housings ranging from 16-way to 62-way
I Fuse solutions like master fuse and single fuses
I Press fit pins and pin headers
I Electronic module connection systems

SAVOY TECHNOLOGY FRANCE - QUINCY-VOISINS

Research and development, stamping and assembly
I Standard connectors, stamped parts
I Stamping parts on customer`s specification
I Tabs, receptacles, ring terminals, sockets
I Specific products
I Custom products

OPTO

BRIGHTEK BRIGHTER (EUROPE) LIMITED

3C Electronics THT LEDs in various shapes, colors and sizes, chip LEDs, digit displays, light bars, side view LEDs .

Horticulture dedicated mid and high power LeDs for plant growth stimulation with specific wavelengths.

UV & IR LEDs for special applications. Low, mid and high powers, in various form factors. Wide selection of UV wavelengths (270nm-420nm)

Lighting Products Mid and high power white LEDs in most popular packages (2016, 2835, 3030, 5630, 3535), available also in R, G, B colors. COBs in standard sizes.

LCD, OLED and TFT displays Wide selection of sizes and number of characters. Monocolor and full color OLED and TFT displays. LCD with touch available.

Optocouplers, photodiodes/transistors/ interrupters Over-under and coplanar types (for better CMR performance). DIP and SOP packages.

SEMICONDUCTORS

TAIWAN SEMICONDUCTOR

High quality semiconductors available with AECQ-101 certificates
I Transient Voltage Suppressors (up to 3000W)
I Zener and switching diodes
I Rectifier diodes
I Schottky diodes
I Rectifier bridges
I ESD diodes and arrays
I BJT transistors
I MOSFET transistors
I Transoptors
I Linear and switching voltage regulators
I Amplifiers and comparators
I Voltage references

LED drivers: DC boost, DC buck, Current Regulator

PASSIVE COMPONENTS

MGT **APAQ**

Magnetic components from MGT
I Circuit protection, ESD, MOV, GDT
I Inductors: chip, bead, power in THT and SMD
I Transformers

APAQ High quality polymer capacitors for demanding applications. Providing longer lifetime, voltage stability in different temp, low voltage derating and a very low bias dependency.

EPSON EXCEED YOUR VISION

Timing and Sensing quartz based devices

Oscillators
I SPXO, TCXO, VCXO, OCXO

RTC modules

Crystal units
I kHz crystals
I MHz crystals
I SAW resonators and filters

Quartz based sensors
I Gyro, pressure, IMU units

Programmable oscillators (P-SPXO)
Crystal oscillators that include a PLL circuit and can be programmed to output a desired frequency. Being able to program for any output frequency facilitates short-lead-time, small-lot production.

Available within 24h via epson.microdis.net service

New products:

High Performance	Cost Effective
SG-8101 Series PROGRAM I any frequency out of 0.67 do 170MHz range	**SG-8018 Series PROGRAM** I any frequency out of 0.67 do 170MHz range
I ±20ppm @ -40°C - 105°C or ±15ppm @ -40°C - 85°C stability	I ±50ppm @ -40°C - 105°C stability including 10 years aging
I power supply 1.8V, 2.5V or 3.3V	I power supply 1.8V, 2.5V or 3.3V
I slew rate	I slew rate
I OE function	I OE function

HARNESS MAKING, ASSEMBLING, MACHINES AND TOOLS

Harness making
I Crimping all typical connectors, half or full automatic process
I Cutting and stripping from AWG32(0,05 mm²) up to AWG8 (8,00 mm²)
I Lead free tin plating

Machines for:
I Benchtop crimping & stripping
I Cutting to length & stripping
I Full Process Crimping
I Marking
I Prefeeding
I Coiling/Collection
I Spare parts

Hand tools for cutting and crimping
Tools for various connectors

With replaceable dies

Various versions of pneumatic and manual tools

Applicators Presses for all types of connectors

Mecal

Other tools & applicators
for RAST connectors
Applicators for:
JST, LEAR, TYCO, JAE, FCI
Testing tools

WEZAG WERKZEUGE + TOOLS

WDT WIRE PROCESSING SYSTEMS

Pneumatic and hydraulic presses with dedicated dies
compatible with WEZAG hand tool dies