



## FANLESS INDUSTRIAL COMPUTERS

Rugged Box PCs  
All-In-One Panel PCs  
Touch Displays  
Rugged Tablets  
Embedded Boards  
Industrial Wireless



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# INDUSTRIAL COMPUTERS AS THE BEST CHOICE

## INDUSTRIAL COMPUTER DESIGN



Fanless Digital Signage player capable to support Full HD video playback



Embedded board

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## About Microdis Electronics

Microdis Electronics provides efficient application support, and assists customers in selection of the most efficient embedded solution, acting as authorized distributor of reliable industrial computers supplied by NEXCOM, AAEON & ASROCK Industrial. Close cooperation with manufacturers with more than 20 years of solid experience in production of industrial-grade and high-performance industrial computers, makes it possible to offer solutions suitable for any kind of application. In case of technical or application questions, our international team of engineers will be pleased to support You.

## INDUSTRIAL COMPUTERS FOR DIGITAL SIGNAGE

### What is DIGITAL SIGNAGE?

Digital signage is a form of dynamic communication using industrial computers called Media Players or network of customizable Media Players with display screens or projectors in public places out-of-home. It offers good opportunity to generate revenue by promoting and advertising customers products to a specific target market on demand and build brand image by influencing customer behavior and catching the customers eyes.



### Low power consumption

When various Digital Signage applications rapidly spread around the world, every participant is looking for a way to maximize return on investment and lower total ownership cost.

#### NEXCOM NDiS B115 – ARM based platform with Android OS

##### Main Features:

- ✓ Fanless and slim design
- ✓ On board Cortex®-A17 quad core SoC
- ✓ Compliant to HDMI 2.0, support 4K2K video content
- ✓ On board WLAN b/g/n and Bluetooth 4.0 module
- ✓ 2G RAM, 16G eMMC storage default
- ✓ Preloaded Android 4.2
- ✓ -10 ~ 50°C operating temperature



#### NEXCOM NDiS B325 – Wide operating temperature cost effective computer

##### Main Features:

- ✓ Compact and fanless design
- ✓ Latest Intel® Celeron® Processor N3150 quad core
- ✓ Optionally: Core i3-6100U / Core i5-6200U CPU
- ✓ HDMI (4K Resolution) and VGA independent displays
- ✓ 1x VGA / HDMI and 1x HDMI Output
- ✓ 4x USB 3.0 & 2x USB 2.0
- ✓ 1x GbE LAN & 1x COM port
- ✓ Optional WLAN Kit with external antenna
- ✓ -20 ~ 50°C wide operating temp.



#### NEXCOM NDiS B426 – Wide operating temperature advanced graphics computer

##### Main Features:

- ✓ Compact and fanless design
- ✓ 6th generation Intel® Celeron™ 3855U CPU
- ✓ Discrete GPU NVIDIA® GeForce® GT 730
- ✓ Dual HDMI output (4K2K resolution support)
- ✓ 2x USB 2.0 & 4x USB 3.0
- ✓ 1x GbE LAN & 1x COM port
- ✓ Optional WLAN Kit with external antenna
- ✓ -20 ~ 50°C wide operating temperature



## Open Pluggable Specification PC

NEXCOM OPS computers follow the electrical and mechanical specifications of the Open Pluggable Specification. They can be plugged into any OPS-compliant display device to render rich multimedia content. Thanks to the modular and cable-less design they satisfy the need for quick deployment and hassle-free maintenance of large digital signage network.



#### NEXCOM NDiS M324, M335, M533, M535 – OPS computers

##### Main Features:

- ✓ Compliant with Open Pluggable Standard (OPS)
- ✓ Fanless and compact design
- ✓ 1x HDMI & 1x GbE LAN
- ✓ 4x USB 2.0 / 3.0
- ✓ External accessible 2.5" disk slot
- ✓ Mini-PCIe expansion for optional WLAN / 3.5G module



Taking advantage of the latest Intel technology, they can accelerate 3D rendering, image processing and video decoding, to provide highly personalized information base on the result of audience measurement to deliver accurate marketing messages. With availability to playback 4K Ultra HD content NEXCOM OPS computers bring premium graphics capability, improved system responsiveness, convenient remote manageability, and abundant peripheral expansion into the OPS form factor. It can benefit education, retail and enterprise segments.

## High performance Ultra HD Players

**NEXCOM**

### NEXCOM NDiS B533

#### Main Features:

- ✓ Intel® 4<sup>th</sup> generation Core™ i3/i5/i7 CPU
- ✓ Intel® HD4600 graphics engine and Q87 chipset
- ✓ Intel® AMT 9.0 / vPro™ Technology
- ✓ Triple independent Full HD Video Playback
- ✓ 3x HDMI, Enhanced 4K x 2K video output
- ✓ 4x USB 3.0, 2x RS232, Dual GbE LAN
- ✓ 2x mini-PCIe for TV tuner, WLAN, GSM 3.5G module



The NDiS B533 has a variety of functions, including driving three large displays in 4K Ultra HD resolution, 3D gaming graphics, live video chat, anonymous video analysis and intelligent interaction. Combining Intel® Active Management Technology 9.0 (Intel® AMT), it can be remotely powered on/off, monitored and controlled over network, keeping player management simple and maximizing player uptime.

### NEXCOM NDiS B535

#### Main Features:

- ✓ Latest 6<sup>th</sup> Generation Intel® Core™ quad core i3/i5/i7 CPU
- ✓ Intel® integrated HD 530 graphic engine
- ✓ DDR4 RAM memory up to 32G
- ✓ Smooth 4K2K content playback via 3x HDMI 2.0 outputs
- ✓ Fanless design
- ✓ 6x USB 3.0, 4x RS-232, Dual GbE LAN
- ✓ 2,5" SATA & NFGG (M.2) type storage support
- ✓ 1x mini-PCIe for TV tuner, WLAN, GSM 3.5G module

**NEXCOM**



High performance NDiS B535 is capable of parallel, intensive data- and graphic-processing. It supports 4K2K contents with the unified display output of three HDMI 2.0 ports, accelerated media codecs including HEVC, and the latest API support such as Microsoft® DirectX® 12 on Windows® 10.

## Wall controller, up to 12 independent displays support

Multiple video outputs

Powerful discrete graphic controller

Portrait/Landscape display orientation

Maximize visual impact to draw more attention

Flexible screen matrix

**NEXCOM**

### NEXCOM NDiS B866/B8C6 – rackmount computer

#### Main Features:

- ✓ INTEL® Skylake-S i3/i5/i7 CPU
- ✓ AMD Radeon E8870 Embedded GPU
- ✓ Up to 32Gb DDR4 RAM
- ✓ 6x / 12x HDMI
- ✓ 6x USB3.0, 2x GbE, 2x COMs
- ✓ 2x Removable disks with RAID support
- ✓ 3.5G / WLAN and TV tuner support



\* under development

The multi-display digital signage player can connect up to 12 independent HDMI displays to smoothly present Full HD videos. NDiS B866/B8C6 is an advanced media player for any applications requiring to render high quality contents over multiple displays. It is especially suitable for video wall, security control room, digital menu board and corporate reception.

## Passenger information Panel PC

### NEXCOM NDiS A322

#### Main Features:

- ✓ Intel® Celeron® N2807
- ✓ Wide range DC input from 9~36V
- ✓ -10 ~ 40°C operating temperature
- ✓ IP54 Front bezel & tempered glass
- ✓ Fanless design
- ✓ Supports Video over IP technology (Daisy Chain)
- ✓ 2x mini-PCIe socket for optional Wi-Fi / GPS / GSM 3.5G module

**NEXCOM**



NDiS A322 is 21.5" 16:9 LCD with Full HD resolution support. An industrial motherboard inside is making it the perfect All-In-One Panel PC solution for digital signage. Optional VESA mount Kit allows easy installation almost in any location. It is compliant to in-vehicle industrial e-Mark standard.

An additional feature is Daisy Chain over IP technology support. It is providing an easy to use multimedia transmission over CAT5E Ethernet cable, what extends the video signal up to 60m or a longer distance. NDiS A322 can be maximally connected to 8 NDiS AC22 displays, which act as receivers/extenders.

# AUTOMATION INDUSTRY COMPUTERS

## Low Power, compact size controllers

### NEXCOM NIO 100/101 – IoT gateway

#### Main Features:

- ✓ Onboard Intel® Quark processor X1021 single core 400MHz
- ✓ 1G RAM Memory, 4G eMMC storage default
- ✓ Wind River® / Yocto operating system and McAfee® security software solutions
- ✓ 2x 10/100 Fast Ethernet ports, 2x USB2.0, 1x RS232/485 selectable, DIO4x4
- ✓ 1x / 2x mini-PCIe socket for optional Wi-Fi / 3.5G / 4G LTE / fieldbus module
- ✓ 9 ~ 36V DC power input
- ✓ -20 ~ 70°C extended operating temperature
- ✓ Wall and DIN-Rail Mounting (optional)

NEXCOM



NEXCOM latest NIO series provides seamless interconnection and secured data transmission from edge devices to the cloud. NIO 100, designed as an IoT (Internet of Things) gateway for cloud applications focused in the industrial field, collects sensor data via RS232/485/DIO and transmits data to cloud by 3G, Wi-Fi or Ethernet. Combining the support for various communication interfaces and extended operating temperature, NIO 100 series offers flexible use in manufacturing, industrial, environmental monitoring, home and building automation applications.

NEXCOM



### NEXCOM NISE 50 – Low cost PC-based controller

#### Main Features:

- ✓ Onboard Intel® Atom™ processor E3826 dual core, 1.46GHz
- ✓ 2/4G RAM Memory, 16/32G eMMC storage default (optional 2,5" disk)
- ✓ 1x HDMI Display, 4x USB 2.0
- ✓ 2x Intel® I120AT GbE LAN ports; Support WoL, Teaming and PXE
- ✓ 3x mini-PCIe socket for optional Wi-Fi / 3.5G / 4G LTE modules
- ✓ 1x RS232, 1x RS232 (only Tx/Rx/GND), 1x RS422/485 with auto flow control
- ✓ -5 ~ 55 °C operating temperature
- ✓ 24V DC input with +/-20% range

### NEXCOM NISE 105 - Wide operating temperature PC-based controller

#### Main Features:

- ✓ On-board Intel® Atom™ dual core E3826 1.46 GHz / quad core E3845 1.91GHz
- ✓ HDMI & DVI-I supports dual independent display function
- ✓ 2 x USB2.0 & 1x USB3.0, Dual GbE
- ✓ 4x RS232/422/485, jumper free setting
- ✓ 1x mini-PCIe socket for optional Wi-Fi / 3.5G / LTE module
- ✓ External CFast socket, SIM card & RTC battery holder
- ✓ 9 ~ 30V DC power input
- ✓ -20 ~ 70°C extended operating temperature
- ✓ Supports ATX Power Mode, WoL, LAN Teaming and PXE Function

NEXCOM



The NISE 105 offers excellent performance per watt, dual full HD 1080p capability, rich connectivity interfaces and high reliability, even operating in extreme temperature. It's designed for easy installation and maintenance. This compact fanless computer can fulfill the needs of various factory automation applications ranging from data acquisition server for big data analytics to high-level PC-based automation controller.

NEXCOM



### NEXCOM NISE 106 – PC-based controller

#### Main Features:

- ✓ Onboard Intel® Pentium® processor N3700 quad core, 1.6GHz
- ✓ 3x display output: 1x HDMI + 1x DVI-D + 1x DP port
- ✓ 2x Intel I210AT LAN ports support WoL, Teaming and PXE
- ✓ 4x USB 3.0
- ✓ 4x COM ports with RS232, 2x COM port with RS422/485
- ✓ 1x mini-PCIe socket for optional Wi-Fi / 3.5G / LTE modules
- ✓ -5 ~ 55°C operating temperature
- ✓ 9 ~ 30V DC power input

With latest Intel® Pentium® N3700 CPU the NISE 106 offers excellent value for cost with quad-core computing power, HEVC decoding with three display support, high compatibility with the latest and legacy peripherals, and internet connectivity. The fanless computer NISE 106 can be used to increase reliability of production process by visual inspection and operation monitoring.

#### Applications

Communications control, Industrial automation, Machinery computer, Self-service computer, Kiosk computer, Ticket machine, Transportation control system, M2M server, Visual inspection.



## NEXCOM NIFE 200 – PC-based controller with fieldbus expansion



### Main Features:

- ✓ On-board Intel® Celeron quad core J1900 CPU
- ✓ Dual independent display via DP & DVI-I
- ✓ 3x USB2.0 & 1x USB3.0, Dual GbE
- ✓ 2x RS232/422/485 with 2.5KV isolation protection
- ✓ 2x mini-PCIe socket for optional Wi-Fi / 3.5G / 4G LTE / Fieldbus modules
- ✓ Top access SD card socket & SIM card holder
- ✓ 24V DC power input with +/-20% range
- ✓ -5 ~ 55°C operating temperature
- ✓ Supports WoL, LAN Teaming and PXE Function
- ✓ Optional 2x PCI expansion



The PC-based controller NIFE 200 is designed to operate under tough factory conditions. To enable cross-protocol communication, the computer supports several fieldbus protocols including PROFIBUS, ProfINET, DeviceNET, EtherCAT, EtherNet/IP, CANopen, SERCOSIII master module. It can integrate PLCs, remote I/Os and legacy field devices using different protocols and across different control subsystems take field data to the cloud to enable big data analytics.

## High performance platform



## NEXCOM NISE 3600

### Main Features:

- ✓ Support 3rd generation Intel® quad Core™ i7 CPU
- ✓ 2x GbE LAN, 4x USB3.0 & 2x USB2.0
- ✓ VGA + DVI-D + 2x DP with triple Independent Display function
- ✓ External CFast socket and SIM card holder
- ✓ 5x RS232 and 1x RS232/422/485
- ✓ 1x mini-PCIe socket for 3.5G / WLAN
- ✓ 9 ~ 30V DC power input
- ✓ Expansion slots: up to 2x PCI / 2x PCIe4 as option
- ✓ Optional Dual HDD kit
- ✓ Supports ATX power mode and WoL and PXE function
- ✓ Aluminum Chassis with fanless design



The NISE 3600 series is a power mixture of scalable computing performance, flexible PCIe expansion and high-bandwidth interfaces. This series adopts a fresh new industrial design to have reliability escalated to match up its enormous capability and functionality. With computing and graphic performance enhancement, NISE 3600 will fulfill any graphic intensive or computing oriented applications, even when wide operating temperature and vibration may exist.

## NEXCOM NIFE 300P3 - Automation System with Expansions



### Main Features:

- ✓ Support 6th generation Intel® Core™ i7/i5/i3 LGA1151 socket type processors
- ✓ 1x DVI-D and 1x HDMI for dual independent display support
- ✓ 3x Intel® GbE LAN ports; support WoL, teaming and PXE
- ✓ 4x USB 3.0, 2x USB 2.0 and 2x RS232/422/485
- ✓ 1x front access 2.5" SATA HDD tray
- ✓ 2x Mini PCIe socket support optional modules and mSATA device
- ✓ 1x external CFast socket and 1x SIM card socket
- ✓ 24V DC power input with +/-20% range
- ✓ 2x PCI & 1x PCIe expansion slots



The 6th generation Intel® Core™ processors utilizing Intel's 14nm process have integrated Intel® HD Graphics and the latest generation interfaces including DDR4 2133. NIFE 300 excellent performance is suited for graphic- and compute-intensive applications such as motion control and machine vision. The 4K2K resolution enables human machine interface (HMI) to show exquisite details of working pieces and 3D simulation of working processes.

## MULTI-PURPOSE COMPUTERS

## AAEON BOXER-6404/WT – Wide operating temperature slim embedded controller



### Main Features:

- ✓ Intel Celeron J1900 Quad Core 2.0GHz
- ✓ Fanless & slim Boxer Design : 30mm
- ✓ 2x/4x RJ45 LAN Ports, 1x USB 3.0 & 2x USB 2.0
- ✓ 1x/2x HDMI video outputs
- ✓ 1x RS232
- ✓ CFast storage
- ✓ -20 ~ 60°C / -30 ~ 75°C wide operating temperature



AAEON introduces the slimmest product in the Boxer series. With this small form factor customers can fit it almost everywhere and it provides quite a lot of I/O ports for basic applications. BOXER-6404 adopts fanless design for high reliability to fit in most rugged environment. It's suitable as Automation Controller or in Digital Signage applications.



### AAEON NANO-001N – Low cost i3 PC-based computer

#### Main Features:

- ✓ Intel® 5th Generation 14nm ULT Core™ i3-5010U 15W BGA CPU
- ✓ 2G RAM & 32G SSD default
- ✓ 2x GbE LAN, 4x USB 3.0, 2x USB 2.0
- ✓ Dual Display Port
- ✓ Fanless design
- ✓ VESA mount

## RUGGED TABLET PC

### AAEON RTC-600/700/900

#### Main Features:

- ✓ Dual Core Processor
- ✓ High brightness 5.7" /7" /10" WXGA (1280 x 800) TFT LCD
- ✓ Projected Capacitive Multi-Touch screen (Gorilla glass)
- ✓ 5M Pixel Rear Camera, 1.2M Pixel Front Camera
- ✓ Wireless connectivity WLAN / 3.5G / Bluetooth
- ✓ Integrated GPS receiver, G-sensor, 3-axis gyroscope, E-compass
- ✓ IP65 compliance for dust and water protection
- ✓ -20 ~ 60°C operating temperature
- ✓ Compliant with MIL-STD-810G from vibration
- ✓ Optional MSR / Barcode reader
- ✓ Optional accessories: docking station, carry bag etc.



This rugged tablet PC utilizes the Android or Windows operating system. RTC-600/700/900 supports high performance and low power consumption processors. The high capacity battery provides appx. 12 hours of working time for operator usage during the whole working day. The compact size and light weight brings tremendous mobility to any application. The latest design has scratchproof LCD and is protecting against shock, vibration, water and dust.

## INDUSTRIAL PANEL PCs

They adopt an all-in-one concept that integrates a single board fanless computer, LED display and user-friendly touch screen within a slick and compact NEMA4/IP65 chassis. Designed to serve as a flexible and reliable industrial computing platform, each Panel PC is a highly integrated, network-ready computer with exceptional I/O connectivity. The industrial graded machinery and computer is designed for use in harsh environments where shock, vibration and resistance are an issue.

### Ultra-slim 7" / 10" panel PC

#### AAEON ACP-1074/1104 – Ultra-slim 7"/10" panel PC

#### Main Features:

- ✓ Intel Atom J1900/N2807 CPU
- ✓ Many I/O ports: 4x USB, 2x GbE LAN, 2x RS232/422/485
- ✓ Wide Screen with Projected Capacitive Multi-touch
- ✓ 7H Anti-Scratch Surface
- ✓ Thickness: 13mm LCD + Touch, And 20mm Chassis
- ✓ Fanless System & Aluminum Design
- ✓ IP65 Compliant True Flat Screen
- ✓ Optional WLAN module
- ✓ VESA / Panel Mount



The ACP series has a very slim and attractive design. It provides two-point multi-touch function and easy to clean full flat design.



### AAEON OMNI-2155 - Expandable panel PC (10", 12", 15", 17", 19", 21")

#### Main Features:

- ✓ Intel® Celeron® quad-core J1900/ dual-core N2807 processor
- ✓ Flat Surface Design with Projected Capacitive or Resistive Touch
- ✓ 2x GbE LAN, 3x USB2.0 & 1x USB3.0, 1x RS-232/422/485
- ✓ Storage: 1x CFast™ Socket & 1x SATA 2.5" HDD bay
- ✓ 2x mini-PCIe expansion socket for WLAN / 3G / LTE module
- ✓ Wide range power input 9 ~ 30V DC
- ✓ -20°C ~ 60°C wide operating temperature
- ✓ VESA / Panel mount
- ✓ Easy to customize with OMNI-Modules for additional: LAN / USB / COM / DIO / CAN bus / Audio modules

## NEXCOM APPC xx40T series (8", 12", 15", 17", 19")



### Main Features:

- ✓ 4:3 8-19" Fanless LED Panel Computer
- ✓ Intel® Atom™ Dual Core E3826 1.46GHz / Celeron J1900 2.0Ghz & 2G RAM default
- ✓ Flush Panel by 5-wire Touch Screen
- ✓ Dual GbE, 2nd display-VGA, Line-in, Line-out, MIC-in, PS2 KB/MS
- ✓ 3x USB, 2x Mini-PCIe sockets, 1x CFast socket,
- ✓ 2x RS232/422/485, DIO with 2.5kV isolation
- ✓ Optional 3.5G / Wi-Fi module / GPIO
- ✓ IP65 compliant front panel
- ✓ VESA / Panel mount
- ✓ Wide range power input 12 ~ 30V DC
- ✓ Supports optional Fieldbus module (PROFIBUS / ProfiNET / DeviceNET / EtherCAT / Ethernet IP master module and others)



Equipped with various fieldbus interfaces, NEXCOM Panel PCs are compatible with programmable logic controllers (PLCs) produced by many well-known suppliers. The front IP65 compliant panel provides protection from water and moisture damage which allows users to clean the surface directly using high-pressure water jets. This feature makes the APPC series machinery computer especially suitable for applications where stringent hygiene levels are important, such as within the food and beverages industry.

## NEXCOM IPPC xx40P



### Main Features:

- ✓ 16:9 15.6" / 18.5" / 21.5" fanless LED Panel Computer
- ✓ Intel® Celeron® quad core processor J1900 & 4G RAM default
- ✓ Robust metal housing with flat bezel
- ✓ Capacitive 10-points multi-touch
- ✓ Dual GbE, 2nd display-VGA, Line-out, PS2 KB/MS
- ✓ 3x USB, 2x Mini-PCIe sockets, 1x CFast socket,
- ✓ 2x RS232/422/485 / DIO with 2.5kV isolation
- ✓ Optional 3.5G / Wi-Fi module / GPIO
- ✓ IP66 compliant front panel
- ✓ VESA / Panel Mount
- ✓ Wide range power input 12 ~ 30V DC
- ✓ -10°C ~ 60°C wide operating temperature
- ✓ Supports optional Fieldbus module (PROFIBUS / ProfiNET / DeviceNET / EtherCAT / Ethernet IP master module and others)



## NEXCOM IPPC A1570 / A1770 / A1970



### Main Features:

- ✓ 4:3 15", 17", 19" fanless panel computer
- ✓ Powerful 4th generation Celeron / Pentium / i3 / i5 CPU
- ✓ Resistive / Capacitive up to 10-points touchscreen
- ✓ Two expansion slots for add-on PCI / xPCIe cards
- ✓ 1x RS232/422/485, 4x USB3.0
- ✓ Front accessible USB 2.0 for easy of field maintenance
- ✓ Wide range power input 12 ~ 30V DC



IPPC series is a heavy industrial panel PC equipped with powerful processors, TFT LCD panel with LED backlight and user-friendly touch screen. It provides two expansion slots to support PROFINET, PROFIBUS, DeviceNet, EtherNet/IP and EtherCAT modules. It's ideal for use in oil and gas rig, wind farms, chemical factories, pharmaceutical factories, and hazardous working area.

## INDUSTRIAL TOUCH DISPLAYS

### NEXCOM APPD series 4:3 12", 15", 17", 19"

### IPPD series 16:9 15.6", 18.5", 21.5"



### Main Features:

- ✓ Resistive touchscreen in 4:3 ratio / Capacitive 10-points multi-touch in 16:9 ratio
- ✓ Video input: analog VGA and DVI-D (additional DP for IPPD)
- ✓ Dual touch interface: RS-232/USB
- ✓ -10 ~ 60°C operating temperature
- ✓ 12 ~ 24V DC power input
- ✓ VESA / Panel mount
- ✓ High shock and vibration resistance



The APPD/IPPD series has also an IP65/IP66 flush front panel, which can keep water and dust off the surface. They are the best choice for NEXCOM NISE fanless computer and APPC/IPPC panel PC when a 2nd display is required.



# WATER-PROOF SOLUTIONS

## AAEON AFP series: 12.1", 15"

### Main Features:

- ✔ Intel Atom D525 / D2550 1.8GHz Processor
- ✔ Water-Proof M12 connectors
- ✔ 1x RS232, 1x RS232/422/485, 2x USB2.0, GbE LAN
- ✔ 9 ~ 30V DC power input with isolation protection
- ✔ -20 ~ 50°C wide operating temperature
- ✔ High shock and vibration resistance
- ✔ TFT LCD with resistive Touchscreen

- ✔ IP66 / NEMA4x Compliant Stainless Type 316L System
- ✔ Anti-Scratch Touch Screen: 7H

**AAEON**



AAEON AFP series is built in the highest grade stainless steel type 316L enclosure with polished surface for easy cleaning and maintenance. This device offers protection against extreme vibration and shock, dust accumulation, corrosive acid and alkaline. Power input protection mechanism with over-voltage protection, low-voltage protection and reverse protection makes the systems more reliable. These waterproof solutions are ideal for chemical and food industry applications.

# IN-VEHICLE INDUSTRIAL COMPUTERS

## NEXCOM VTC 100

### Main Features:

**NEXCOM**

- ✔ Compact and Fanless Design
- ✔ ARM® Cortex™-A8 720MHz CPU with WEC7 / Linux OS preinstalled
- ✔ Built-in CAN Bus & GPS receiver with optional Dead Reckoning function
- ✔ Mini-PCIe for 3.5G module
- ✔ 2x RS232, 2x USB 2.0, 1x GbE LAN, GPIO
- ✔ 9 ~ 36V DC power input

- ✔ -20 ~ 70°C operating temperature
- ✔ Smart Power Management with Ignition On/Off Delay
- ✔ High vibration and shock resistant, according to MIL-STD-810G



VTC100 is an ARM-based compact computer designed for low power applications with limited available space. It adopts SAE J1939/ J1708 CAN bus protocols to vehicle data acquisition and provides data exchange over Bluetooth, Wi-Fi and 3.5G network. VTC 100 in-vehicle computer is the best choice as the cost effective solution for your vehicle application.

## NEXCOM VTC 7230 – high performance telematics computer

### Main Features:

**NEXCOM**

- ✔ Intel® 4th gen. dual core i3-5010U
- ✔ Rugged fanless design to meet MIL standard
- ✔ Built-in u-blox GPS module with optional Dead Reckoning support
- ✔ Dual externally accessible SATA3.0 SSD/HDD and CFast storage
- ✔ Smart power management with ignition On/Off delay, low voltage protection
- ✔ 9 ~ 36V DC power input
- ✔ -30 ~ 55°C operating temperature
- ✔ Optional CAN 2.0B with optional OBDII function (SAE J1939/J1708)
- ✔ Optional battery backup kit & IP65 protection kit



- ✔ Optional 7"/8" monitor with Touchscreen
- ✔ Optional 4 channels capture cards
- ✔ 4x mini-PCIe sockets for wireless modules (3.5G, LTE / WLAN / BT)
- ✔ Supports 3x SIM card slots + dual WWAN

VTC 7230 features new generation Intel® Core™ processor i3-5010U. Powerful graphic engine allows users to achieve smooth, seamless and stunning graphic performance on 3 different video outputs (VGA, DP, LVDS).

**NEXCOM**

## NEXCOM VES30-4S/8S - In-vehicle PoE switch

### Main Features:

- ✔ Fanless, dustproof & vibration resistant
- ✔ 4/8 x 10/100/1000 Mbps PoE port (802.3af compliance)
- ✔ 15.4W at 48VDC for each PoE port
- ✔ Low battery voltage protection
- ✔ 9 ~ 36V DC power input
- ✔ -30 ~ 70°C operating temperature
- ✔ Ignition power On/Off support
- ✔ Power On/Off delay time setting
- ✔ CE/FCC, E13 mark certification
- ✔ DIN RAIL Mounting



VES30-4/8S mobile PoE switch is designed for smooth transfer of large amounts of video streaming, voice and critical data across Ethernet network.

## Vehicle Mount computer

### NEXCOM VMC 3000/3500 - All enclosure compliant with NEMA4/IP65



#### Main Features:

- ✓ 10.4" XGA TFT LCD monitor / optional sunlight readable 1000nits
- ✓ Intel® Core™ i7 2610UE 1.5GHz / Atom™ D2550 1.86GHz processor
- ✓ Automatic / manual brightness control
- ✓ On screen F1 ~ F10 function key
- ✓ Variety of wireless communication options (3.5G, WLAN, BT)
- ✓ CFast and 2.5" slot for storage
- ✓ CAN bus support J1939/J1708
- ✓ 3x USB 2.0, 2x RS232, 1x GbE
- ✓ 9 ~ 36V DC power input
- ✓ -30 ~ 60°C operating temperature



VMC 3000/3500, 10.4-inch all in one robust vehicle mount computer is designed for the transportation, warehouses and material handling application. It offers two different levels of computing performance. VMC 3500/3501 based on the 2nd generation Intel® Core™ i7-2610UE processor are intended for computing- and graphics -intensive intelligent systems; VMC 3000/3001 powered by Intel® Atom™ processor D2550 are aimed to meet both needs: vehicle telematics and energy efficiency. VMC 3000/3500 is extremely rugged, the aluminum enclosure compliant with IP65 is designed against vibration, dust, moisture and chemical impacts.

## Telematics IoT gateway

Positioning & Tracking

Theft prevention

Driver behavior monitoring

Predictive Maintenance of vehicle



### NEXCOM FMS 1000

#### Main Features:

- ✓ Rugged IP67 protection
- ✓ -20 ~ 60°C operating temperature
- ✓ Back up rechargeable battery
- ✓ Voice & SMS communication
- ✓ 2x CAN Bus 2.0B, 3.5G and Wi-Fi support
- ✓ 10/100 Mbps Ethernet port, 1x RS232, 3x DI, 3x DO, 3x Analog-In
- ✓ Driver identification support (iButton & RFID)
- ✓ 1Mb onboard memory, Support optional USB storage as data logger
- ✓ E13 Mark Certificate

FMS 1000 is a well-integrated telematics IoT gateway to provide all data for more efficient fleet operation and management. The data provided by FMS 1000 gives users the capability of real-time remote diagnostics, vehicle tracking/mapping, trend & driver performance analysis and operational record-keeping. Rugged FMS 1000 is especially designed for heavy equipment industries such as off-highway vehicles where 24/7 non-stop, real-time overview of their fleet is highly recommended.

## Rugged train PC

### NEXCOM nROK 5300/5500



#### Main Features:

- ✓ High performance Intel® Core™ i5/i7 CPU
- ✓ Fanless and rugged design
- ✓ Smart power management with ignition On/Off delay
- ✓ Support software base RAID 0/1/5/10
- ✓ Isolation RS-232/422/485 and GPIO (optional)
- ✓ 4x removable 2.5" SSD tray
- ✓ 24/110VDC power input with isolated protection
- ✓ Optional 8x channels POE with IEEE802.3af
- ✓ Optional one PCI express x8 expansion slot
- ✓ Certified by EN50155



nROK series offers the powerful computing platform with rack mount form factor to install in the cabinet. I/O connections are securely fixed with locks, preventing system breakdown caused by loose ends. Wireless communication design is dedicated to support GPS function, Wi-Fi and WWAN connection. nROK series is targeted for the rolling stock market with special design to meet the criteria of installation in the vehicle.

## INDUSTRIAL WIRELESS SOLUTIONS

NEXCOM Industrial Wi-Fi is specially designed to support mesh and fast roaming functions, which can enhance long range wireless coverage and mobility connectivity. The Industrial Wi-Fi offers a wide range of products in versatile deployments from light duty to heavy industrial applications.



### NEXCOM IWF6330 - IP67 Outdoor Hopping/Mesh/Mobility Access Point

#### Main Features:

- ✓ Triple Radios, Dual Band and compliant with IEEE 802.11a/b/g/n
- ✓ Fast roaming (hand-over switch time less than 20 ms)
- ✓ Smart installation utilities: distance calculation, antenna alignment and site survey tools
- ✓ 48VDC PoE input
- ✓ Gigabit Ethernet waterproof RJ45
- ✓ WEP, WPA, WPA2-PSK/EAP (IEEE 802.1X/RADIUS, TKIP and AES)
- ✓ Operating temperature range from -35 to 75°C

# LARGE FORMAT DISPLAYS WITH TOUCHSCREEN

32", 40", 42", 43", 46", 47", 48", 49", 55", 65", 70"

## Main Features:

- ✓ AMVA3 / MVA / IPS panel technology with Full HD & Ultra HD resolution
- ✓ Projective Capacitive, Infrared or Optical Multi-Touch Technology with up to 12 compatible points
- ✓ Durable and professional design / full metal structure
- ✓ Open frame mounting for 15", 17", 19", 21.5", 32", 42", 46", 55"
- ✓ IP65 front in 17", 19" size
- ✓ Anti-glare coating and scratch resistance surface
- ✓ USB Media Playback
- ✓ Black tuner, 1ms response time, overdrive function
- ✓ Fanless design eliminates noise and reduces dust contamination
- ✓ 24h/7 operating time (in some models)
- ✓ Great viewing angles & exceptional color clarity
- ✓ Built-in speakers & ambient light sensor
- ✓ Wide range of video and audio inputs
- ✓ VESA mounting & Remote control
- ✓ Expansion slot for Open Pluggable computers
- ✓ Compatible with NEXCOM OPS players



Iiyama is a manufacturer of hi-end monitors for demanding users. Large format displays are the ideal solution for Interactive Digital Signage, Instore Retail, Kiosks, Gaming, Interactive Presentations, Education etc.

For consumer market Iiyama produces monitors equipped with resistive, capacitive or SAW touchscreens. Multi-touch feature, IP54/65 front and scratch resistance glass are also available. Business line has a special mounting kit for VESA compatible media players.

## EMBEDDED BOARDS



- ✓ Cost-effective reliable mini-ITX & 3.5" boards from ASROCK based on latest Intel Atom/Celeron/Pentium/ i3/i5/i7 and AMD processors
- ✓ Only Japan-made high-quality Conductive Polymer Capacitors used
- ✓ Fanless design
- ✓ 24/7 operating time
- ✓ Min. 5 Years product availability



- ✓ Various form factor Single Board Computers from NEXCOM & AAEON: 3.5", 5.25", PICMG, PC/104, EPIC, microATX, miniATX, ATX, RISC-based, Full Size, Half Size etc.

- ✓ Computers on modules : COM express, ETX etc.
- ✓ Extended temperature boards

## SUNLIGHT READABLE LCD



Sunlight Readable LCD!

Total Display Solution Provider

Core Technology - sunlight readable LCD



ABT

- CCFL Backlight LCD
- ALF series
  - ALH series



Spanpixel

- Resizing LCD
- SSO series
  - SSD series



Durapixel

- LED Backlight LCD
- DLF series
  - DLH series



AOT

- Passive Enhancement LCD
- OLF series
  - OLH series



Platform

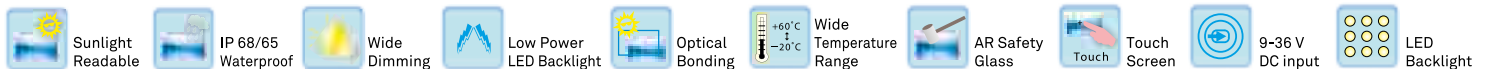
Solution Business

- SLO series
- SLD series


Component Business

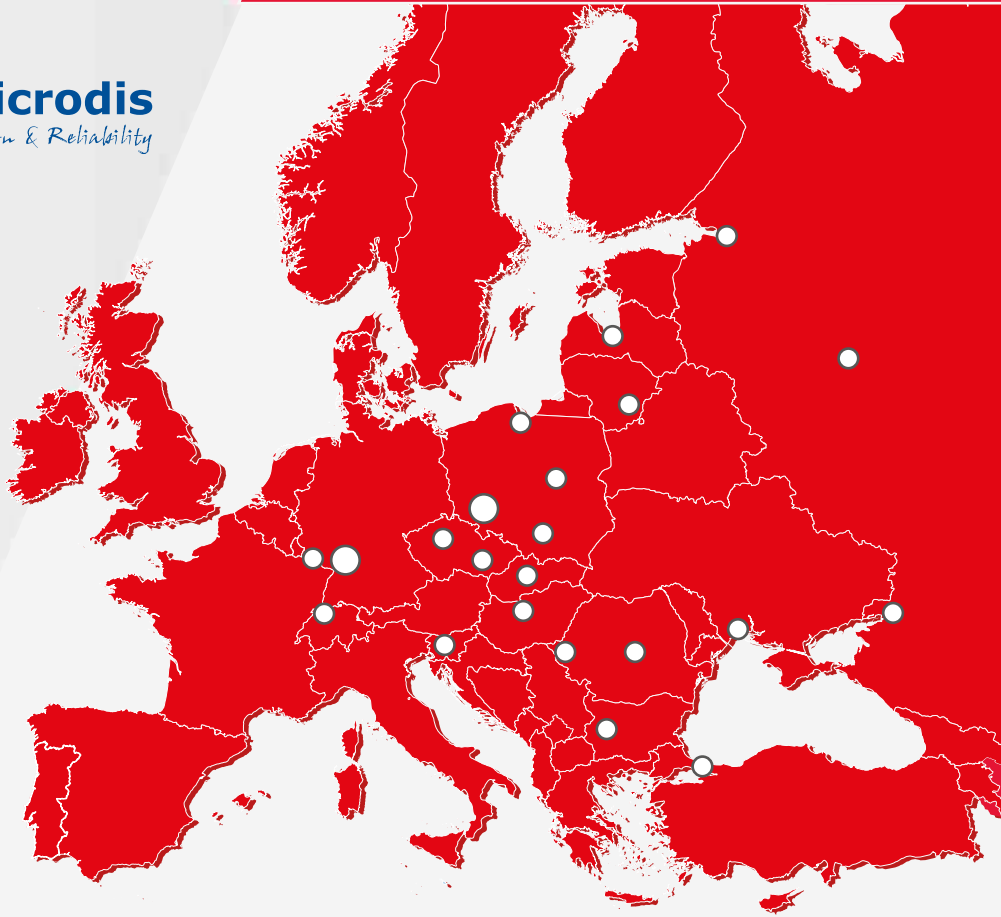
- AD Board
- Inverter Board
- LED Driving Board
- Smart Module Board (SMB)
- Power Board

### Core Technologies:





-  Bulgaria@microdis.net
-  Croatia@microdis.net
-  Czech@microdis.net
-  Estonia@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
-  Turkey@microdis.net
-  Ukraine@microdis.net
-  microdis.de@microdis.net



- AAEON
- AEGID
- ALPS ELECTRIC
- AMBER WIRELESS
- ASROCK
- BRIGHTTEK
- CAMDENBOSS
- EPSON
- FISCHER CONNECTORS
- FISCHER ELEKTRONIK
- GLOBAL CONNECTOR TECHNOLOGY
- IYYAMA
- ISOCOM
- JST
- LEAR
- MAXTENA
- MECAL
- MEDER
- MEDIKABEL
- METZ CONNECT
- NEXCOM
- SEOUL SEMICONDUCTOR
- TAIWAN SEMICONDUCTOR
- U-BLOX
- WEZAG

- Industrial computers and panels
- RFID systems and transponders
- Switches, encoders, potentiometers and printers
- RF ISM, Bluetooth modules and transceivers
- Mini-ITX industrial boards
- Power, THT and chip LEDs and LED modules
- Interconnect components, electronic housings, 19" cabinets
- Crystals, oscillators, filters and sensors
- Military, medical and industrial connectors
- Heatsinks, connectors, 19" and case technology
- SIM-Holders, memory card connectors, USB connectors
- Large Format Displays
- Optocouplers, optoswitches
- Signal connectors
- Automotive and white goods connectors
- GPS, Galileo, Glonass, Iridium antennas
- Machines and systems for wire crimping
- Reed switches, sensors and relays
- UL/CSA/DIN certified, customized industrial cables
- Terminal block connectors - screw, spring and pins
- Industrial computers and panels
- LEDs - power, full color, 230AC
- Semiconductor devices
- GNSS, GSM, UMTS/HSPA/CDMA/LTE/NBIoT modules, WiFi, Bluetooth, NFC, V2V/V2X, antennas
- Hand tools for crimping, pneumatic presses

- [www.aaeon.com](http://www.aaeon.com)
- [www.aegid.de](http://www.aegid.de)
- [www.alps.com](http://www.alps.com)
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- [www.u-blox.com](http://www.u-blox.com)
- [www.wezag.de](http://www.wezag.de)

Currently the Microdis Group employs over 100 people, with a large number of electronic engineers, mostly involved in sales and marketing.

As a company with an extensive experience in the distribution of electronic components, and a purchasing center in Germany for many years, we are able to offer almost any product from a wide variety of electronic components. We offer also the production of cable harnesses and programming of crystal oscillators for a customised frequency. Cooperation with a catalogue distributor provides fast deliveries (2 days) of a wide range of catalogue products.

We have certificates of quality management DIN EN ISO 9001:2015 for the distribution of electronic components.

EN v.1.5

