



# 2021 Mobile Computing Solutions Product Selection Guide





# Product **Series**

- AI Edge Telematics Solution
- Vehicle Telematics Computer
- Railway Computer
- Vehicle Mount Computer
- Modular Vehicle Computer System
- Vehicle Mount Display
- In-Vehicle Networking



# **ATC Series** Advanced Telematics

- Designed for Al
- Selected NVIDIA GPU, VPU add-ons
- 5G/LTE, Wi-Fi, BT, PoE, and multi-SIM





# Computer w/ GPU

- applications: ANPR, video analytics, and autonomous driving
- Google TPU, and Intel
- CAN/OBD, GPS + DR, integration





# **VTC Series**

#### In-Vehicle Computer

- General purpose, high-performance telematics computer
- 5G/LTE, Wi-Fi, BT, CAN/OBD, GPS + DR, POE, and multi-SIM integration
- IP protection
- NEXCOM proprietary power management
- Al applications with add-on GPU card
- Backup battery



# **nROK Series**

#### Railway Computer

- Fanless and rugged design
- 5G/LTE, Wi-Fi, BT, CAN/OBD. GPS + DR. POE, and multi-SIM integration
- Optional isolated 24~110VDC power
- Al applications with add-on GPU cards
- EN50155 & EN45545 certifications



### **MVS Series**

#### Modular Vehicle Computer Systems

- Modular CPU board + I/O board + expandable I/O board
- Flexible integration of LTE, Wi-Fi, BT, POE, and other I/Os
- Easy customization of different I/O interfaces, with quick respins for faster timeto-market



# **VMC Series**

#### Rugged Vehicle Terminal

- Driver's operational display
- Designed for outdoor applications
- Full IP65 certification
- IK08-rated screens Vibration-, shock-,
- dust-, and waterresistant
- 5G/LTE, Wi-Fi, CAN/ OBD, GPS + DR



### PoE and 10G **LAN Solutions**

- 2 to 8 PoE ports for entry-level to high-end VTC/MVS/ATC/nROK models
- Designed for video surveillance, ANPR, and video analytics applications
- 802.3af/at compliance with RJ45 or M12 connector (D, A, X-coded)
- Mobile PoE switches and cards



### **IP Solutions**

- IP65~IP67 protection against water and dust
- Compact and robust design to withstand tough environments
- Reliability and longevity for critical applications









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# Our Core Competencise -

Building a Foundation for Interconnected IoV and Value-Added Innovation



# **Computing Design Capability**

Computing power drives vehicle applications, which is why NEXCOM offers a wide range of computing platforms to meet different vehicle needs

- RISC platform (NXP i.MX6, i.MX8. Rockchip)
- Intel Atom® platform (Baytrail, Apollo Lake, Elkhart Lake)
- Intel® Core™ i platform (Core i 8th, 9th, 12th Gen)
- Intel® high-end Xeon® platform

# Specialization in AI Technology

- Specialize in NVIDIA® (PCIe x 16), Intel® Movidius™ (MXM, PCIe x 4, mini-PCie) and Google Coral (M.2, mini-PCIe) AI accelerators
- Support partners to drive deeper customer engagement in AI + mobile edge computing applications
- Provide edge processing and AI capabilities to software partners/ developers to innovate and create new business models

# **RF Communication Expansion**

For the array of wireless usage cases, NEXCOM specializes in RF communication expansion, providing a comprehensive series of proprietary mini-PCIe/M.2 modules that, when incorporated in NEXCOM's Mobile Computing Solution platforms, allow users maximum flexibility in optimizing vehicle configurations

- GNSS (RTK, Dead reckoning)
- DSRC/C-V2X, LoRa
- NB-IoT, 4G LTE, 5G NR
- Wi-Fi 6

# Premium Design

Over 20 years of experience in designing rugged devices and over 10 in vehicle/railway computers

# **Reliability Quality**

- Fanless design and IP67 protection for extreme environmental conditions
- IK08 impact resistance rating on external mechanics
- Meets CISPR25 standard

- Seasoned design capabilities in customizing system and software integration
- Certificated, 100%-owned manufacturing facilities in Taiwan
- Expertise in mobile transport technologies, with vertical domain know-how
- Acceptance of small to medium quantities, with fast time-to-market delivery

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# Core Competency: Premium Design

For Rugged Devices and Vehicle/Railway Computers



# Uninterrupted Power Means Uninterrupted Operations

#### **External Battery**

Intelligent and rechargeable battery kit provides uninterrupted power and capacity information via RS-232 and SMBus interface



#### Internal Battery

Optional intelligent and rechargeable internal battery provides uninterrupted power for 10 to 15 minutes



#### Internal SuperCap

Built-in supercap for 3-second protection against temporary voltage dips



# **Smart and Effective Cooling System**

#### Smart Fan

- Power efficient: RPM adjusts to temperature changes
- Quiet: lower speeds at lower temperatures
- Convenient: easy setup in BIOS
- Highly reliable: longer lifetime



#### Heat Pipe and Heatsink

- More efficient thermal conductivity with copper pipe
- Better heat dissipation with heatsink dedicated to high-temperature components



# Strong Ingress Protection: IP65/IP67



#### **Dustproof and Water Resistant**

- Protects against dust and water from cleaning or accidents
- Mechanical casings prevent intrusion and accidental contact
- Inhibits deterioration and damage due to moisture and atmospheric contaminants

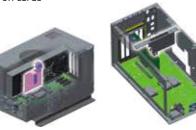




# Sturdy System for Securing Cards While Driving

#### Fixture Design for GPU and PCle Cards

- Avoids vibration issues, absorbing 2.0g at 5 to 500Hz (SSD + graphics card)
- Supports a variety of graphic cards and PCIe add-on cards



#### **Damping Bracket**

- Optional damping bracket enhances anti-vibration capabilities for HDD, GPU, and PCIe cards
- Absorbs 1.6g at 5 to 500Hz (HDD + graphics card)





# Diverse Camera Input Interface for Video Capture

#### PoE Port

- PoE 802.3af/at, max. 25W per port
- Choice of M12 X-coded or RJ45
- Independent 10/100/1000 Mbps
- LAN and power isolation avoids LOM system damage from transient surges



#### Fakra with MIPI Port

- Supports MIPI camera input with FAKRA, 1080p60 2M
- SerDes V-by-One technology
- Uncompressed video data over 15m
- Transmission of up to 1.2Gbps per CSI-2 data lane



#### **CVBS Port**

- Supports mini-PCle capture module and analog camera with H.264 compression
- HD capture solution
- Video input for 1× SDI,
   1 × HDMI, 1 × DVI-I, 1 × YPbPr
- Video format for 3G-SDI,
   HD-SDI, SD-SDI
- SD capture solution
- Video input for CVBS
- Video format for NTSC, PAL



# Internet of Vehicles (IoV) -

Creating a Fully-encompassing Car Ecosystem Through IoV Innovation



# Build Your Next-Gen Mobile Computing Solutions



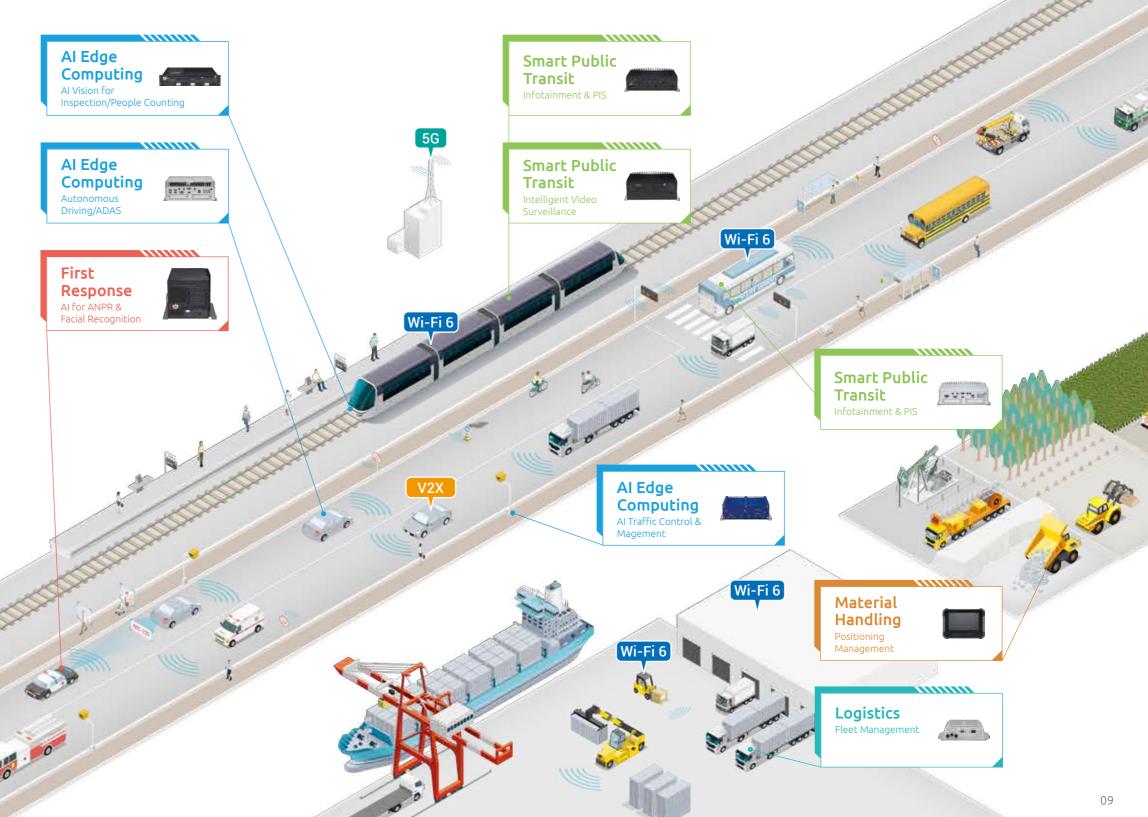
Enable smart transportation and traffic infrastructure with AI inference



Connect to next-gen wireless 5G NR, Wi-Fi 6, DSRC/C-V2X network technologies



Perform intelligent surveillance with event prediction and detection



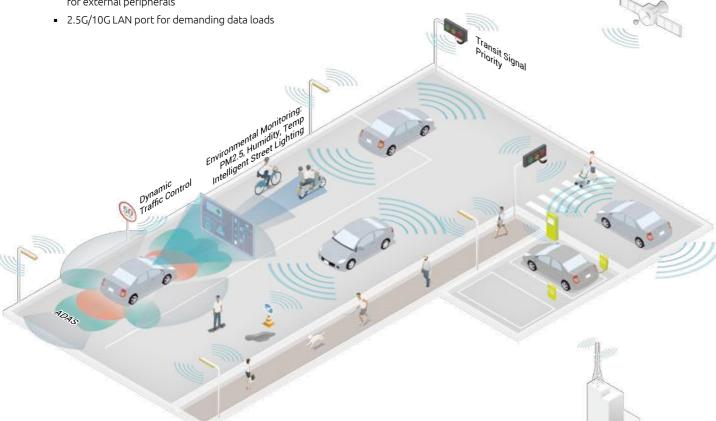
# Autonomous Driving -

Deep Learning Makes Autonomous Driving Perceptive and Practical



### **NEXCOM's Solutions**

- Intel® Core™ 8th/9th, 12th Gen. processor with high performance
- Wide selection of GPU engines from NVIDIA's GeForce GTX10/ RTX20/RTX30 series, Intel® Movidius™, and Google Coral
- GPU acceleration via MXM (Mobile PCI Express Module) and PCIe x16 cards, specially designed for mobile applications
- Multiple I/O connections: PoE, DIO, USB and RS232/422/485 for external peripherals



# Recommended Models



#### ATC 8010

Al Inference, In-Vehicle, Fanless Computer with Intel® Core™ 8th Gen. CPU + Intel® Movidius™ Myriad™ X MA2485 VPU

- Customized NVIDIA® MXM GPU (up to RTX2080)
- Up to 8 independent GbE PoE+



#### VTC 7251-7C4

• RAID 0, 1, 5 and 10 increase data security and integrity

for accurate vehicular positioning

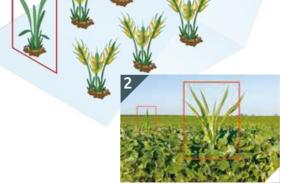
• Global navigation satellite system (GNSS) and WWAN connections

Fanless In-Vehicle Computer, Intel® Core™ i7-8700T

- 1 x LAN + 4 x independent PoE supported
- 4 x mini-PCle + 1 x M.2 Key B expansion slots

# Precision Agriculture Application Requirements

- Flexible design fulfills various AI recognition performance requirements
- Extended connectivity with different peripherals such as MIPI/IP/GigE cameras, light detection and ranging (LiDAR), and radar
- Low-latency signal transmission and rapid cloud computing access
   Built-in NVIDIA® Jetson™ TX2/Xavier NX SOM, up to 21TOPS compute
- Waterproof/dustproof & fanless design for OHV (off highway vehicle) applications
- Rugged design with add-on, built-in GPU module or SoM to sustain vibration and shock for OHV applications
- Precise tracking/positioning through GNSS, RTK, and WWAN



Al-powered recognition



Location tracking helps management



More cloud computing

Functionality in hars environments



#### ATC 3200

AloT Gateway & In-Vehicle Fanless Computer with built-in NVIDIA® Jetson™ TX2 SoM

- Supports 4-CH MIPI SerDes (VBO) cameras (up to 25m cable reach)
- 2 x GbE (PoE+), CANBus, console



#### ATC 8110

Al Powered In-Vehicle Computer, Intel<sup>®</sup> Coffee Lake S/Refresh

- Add-on NVIDIA graphics card up to RTX3090 (350W)
- MIL-STD-810G for anti-vibration/shock to protect graphics card

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# Smart Public Bus Transit -

Take a Ride to a Safe, Green, Fun, and Comfortable Tomorrow

















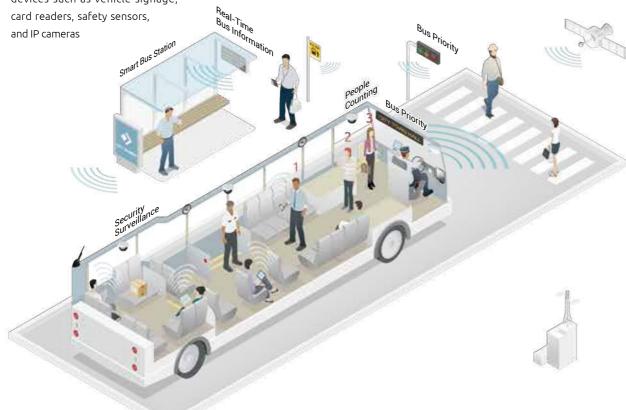






### **NEXCOM's Solutions**

- PC-based, in-vehicle NVRs for real-time surveillance, with live view, recording, and playback features
- Built-in global navigation satellite system (GNSS) with dead reckoning (DR) function for continuous route tracking from remote locations
- Built-in communication ports connect devices such as vehicle signage, card readers, safety sensors,
- Powerful face detection technology enables passenger counting for better management: adjust departure frequency, assign better bus routes, and compute revenue forecasts
- Multiple Wi-Fi and cellular modules, each with multiple SIM slots, act as mobile routers to provide uninterrupted Internet service via various ISPs



# **Recommended Models**



#### VTC 1021-C2K

Fanless In-Vehicle Computer, Intel Atom® Quad Core x5-E3940

- 2 x LAN + 2 x independent PoE supported
- 3 x Expansion slots for various applications



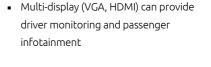
#### VTC 6220-BK

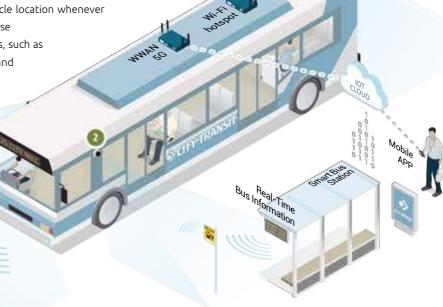
Fanless In-Vehicle Computer, Intel Atom® Quad Core x7-E3950

- 2 x WWAN modules + 4 x SIM cards supported
- VGA/HDMI (ultraONE+ up to 10m or LVDS, by request)

# eBus Application Requirements

- IoT cloud services allow real-transmission of bus information to command centers, stations, and passenger mobile applications
- Wi-Fi 6 high-speed connection improves passengers' video streaming, social media, and online shopping experiences
- PoE cameras can first capture external images, then combine with Movidius VPU and OpenVINO to perform pedestrian detection and issue collision warnings
- GNSS/DR module can obtain vehicle location whenever needed to ensure vehicle is on course
- Rich I/Os connect to other devices, such as people counters, door sensors, and ticketing machines





Pedestrian detection



PoE camera for safety



Wi-Fi hot spot



#### VTC 6221

Fanless In-Vehicle Computer, Intel Atom® Quad Core x7-E3950714

- 3 x mini-PCle + 2 x M.2 Key B expansion slots
- 2 x LTE/5G modules supported



#### VTC 7251-7C4

Fanless In-Vehicle Computer, Intel® Core™ i7-8700T

- 1 x LAN + 4 x independent PoE supported
- 4 x mini-PCle + 1 x M.2 Key B expansion slots

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# Smart Public Rail Transit -

Telematics for Transportation Security and Efficiency, Plus Passenger Satisfaction



# NEXCOM's Solutions

- Compliance with rolling stock regulations EN50155 and EN45545-2
- Power isolation and protection against voltage dips
- Al-powered platform for intelligent surveillance
  Real-time facial recognition on every carriage, using Al at the Edge
- Mobile router supporting different Internet service providers (ISP) with multiple Wi-Fi and cellular networks to provide uninterrupted Internet onboard
- Multi-SIM design and carrier switch means better signals and no roaming charges on international journeys





# **Recommended Models**



#### nROK 6221

Fanless Rolling Stock Computer, Intel Atom® x7-E3950

- 3 x mini-PCle + 2 x M.2 socket expansion
- 2 x LTE/5G module supported



#### nROK 7251-7A

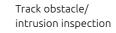
Fanless Rolling Stock Computer, Intel® Core™ i7-9700TE

- 3 x mini-PCIe + 2 x M.2 Key B slots
- 2 x external SSD/HDD and 2 x mSATA for RAID 0, 1

# Vision Application Requirements

- Rugged design protects graphics cards against shock and vibration
- Multipurpose I/O connectors with different sensor/controller connections collect data
- PoE high-resolution cameras can use PoE ports to supply vision
- Applications include pantograph inspection, track obstacle inspection, and traffic light/sign recognition, using graphics card's vision technology







Pantograph inspection

Traffic light, traffic sign recognition



#### aROK 5510

Powerful Platform for AI Applications, Storage Server, Intel<sup>®</sup> Core™/Xeon<sup>®</sup> CPU

- Graphics card supports 3 x mini-PCle + 3 x M.2 socket expansion
- 6 x external SSD and 1 x PCle 3.0 x4
   NVMe 1.3 SSD supported



#### aROK 8110

Al Powered for Autonomous and Machine Vision Platform, Intel® Core™/Xeon® CPU

- 4 x PCIe 3.0 slots for discrete graphics/ inference/frame grabber cards
- 4 x external storage for 2.5" SSD/M.2/
   U.2 NVMe SSD

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# Public Works -

Playing the Key Roles of Enriching the Community and Enhancing the Quality of Life





















### **NEXCOM's Solutions**

- The most diverse line of vehicle computers, powered by Intel® processors to quickly handle strenuous tasks
- GNSS tracking and WLAN/WWAN communication with multi-SIM
- Built-in communication ports, such as USB, COM, GPIO, CANBus, and mini-PCIe, connect peripherals and acquire relevant data
- Extended operating temperature range: -40°C to 70°C
- Rugged design, compact size, and IP65/67 protection for reliable operation in extreme and outdoor environments
- Optional backup battery ensures consistent operation when power supply is unstable
- ultraONE+ technology supports 10-meter video transmission over a single cable



### **Recommended Models**



#### VMC 2020

8" Rugged Vehicle Mount Computer, Intel Atom® Quad x7-E3950

- 1280 x 720 resolution, sunlight readable (1000 nits), PCAP touch screen
- IP65 water-resistant and IK08 external damage protection ratings



#### VTC 1911-IPK

Fanless In-Vehicle Computer, Intel Atom® Single Core E3915

- Telematics IoT gateway with super slim and ruggedized design
- IP67 water- and dust-resistant rating

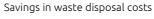
# Garbage Truck Application Requirements

- Fuel savings and reduction of empty runs
- Connection with a variety of sensors for secure operation and
- Robust design for outdoor and off-road environments
- Compact size to fit limited spaces in cabins

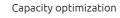
- Precise and real-time vehicle location via AVL technology
- Uninterrupted power for system stability
- Easy wiring installation and maintenance
- IP65 rating means machine reliability and resistance in harsh environments













Empty run reductions





Anti-vibration military standard, IP65 rating, and easy maintenance



#### VTC 6220-BK

Fanless In-Vehicle Computer, Intel Atom® Quad Core x7-E3950

- 1 x M.2 Key B & 1 x mini-PCle for WWAN module + 2 x mini-PCIe for various applications
- Dual externally accessible 2.5" SSD trays



#### VTC 7252-7C4IP

Fanless In-Vehicle Computer, Intel<sup>®</sup> Core™ i7-9700TE

- 2 x LAN + 4 x independent PoE supported
- IP65 water- and dust-resistant rating

# First Response Vehicles -

Trusted Crime Fighting and Emergency Services at Any Time



















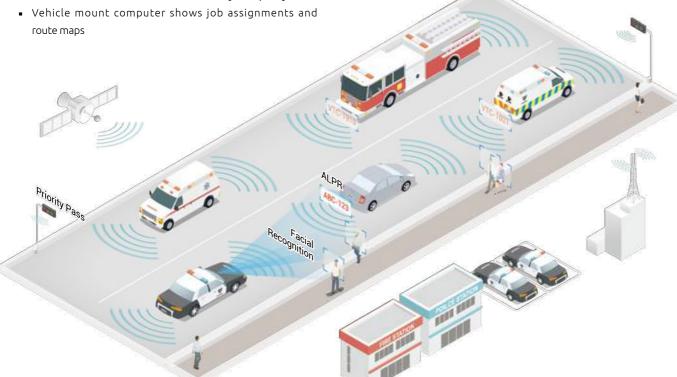






### **NEXCOM's Solutions**

- 360-degree view from up to 8 IP cameras over PoE ports
- Fast automatic license plate recognition (ALPR) and face detection is powered by Intel<sup>®</sup> Core<sup>™</sup> i 8th, 9th and 12th Gen high-performance processors and NVIDIA GeForce® RTX 30xx and 16xx/10xx series graphics cards
- ultraONE+ technology resolves cabling issues and video signal degradation from harsh vehicular operating environments
- CANBus 2.0B reads vehicle status accurately and quickly route maps



devices

# **Recommended Models**



#### VTC 7251-7C4

Fanless In-Vehicle Computer, Intel<sup>®</sup> Core™ i7-8700T

- 1 x LAN + 4 x independent PoE supported, total 60W
- 4 x mini-PCle slots + 1 x M.2 Key B expansion



#### VTC 6222-C4S

• Supports multiple telecom carriers (3G/LTE and 5G) to guarantee

• Supports IEEE 802.3 af/at PoE for IP cameras and other PD

• Backup battery ensures uninterrupted system operation

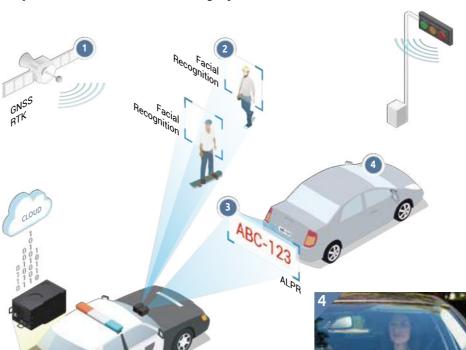
communication and data transmission between vehicle and

In-Vehicle Computer, Intel Atom® Quad Core E3950

- 1 x LAN + 4 x PoE supported
- 1 x RS232 (full), 1 x RS232 (Tx/Rx), 1 x RS422/485

# Smart AI Patrol Application Requirements

- Ability to aggregate video feeds from multiple IP cameras
- High AI performance for sophisticated image processing (facial recognition, ANPR)
- Real-time surveillance on multiple video displays
- Easy system installation to fit limited spaces in vehicles
- Real-time vehicle status monitoring
- Rapid emergency dispatches with most optimal route • Quick and trusted communication with emergency and control center
- Uninterrupted power supply to systems
- Display and system integration with simplified cabling for large trucks
- All-in-one PoE design lowers total cost of ownership (TCO) and facilitates maintenance
- High-speed storage available for high-speed multi-cam needs







Facial recognition technology helps identify suspects



Support for speed violation detection and ANPR technologies



#### ATC 8010

Powerful Intelligent Platform, Intel® Core™ 8th Gen. CPU + NVIDIA® MXM GPU, supporting up to 8 x GbE PoE+

- Customized NVIDIA® MXM GPU (up to RTX2080)
- Up to 8 independent GbE PoE+



Driver seat belt and mobile

phone use detections

#### ATC 8110

AI Powered In-Vehicle Computer, Intel® Coffee Lake S/Refresh

- Add-on NVIDIA graphics card up to RTX3090 (350W)
- MIL-STD-810G for anti-vibration/shock to protect graphics card

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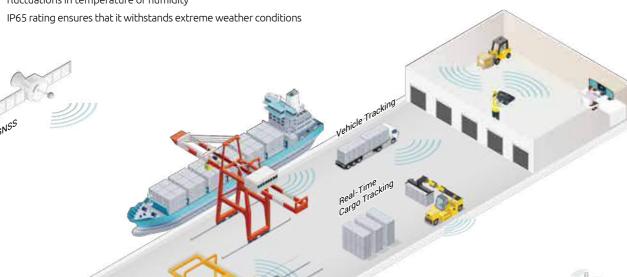
# Port Management & Warehouse -

Around-The-Clock, Reliable Delivery: Your Trust is Our Commitment



### **NEXCOM's Solutions**

- High-brightness LCD touchscreen panel for sunlight readability
- Global navigation satellite system for precise and real-time vehicle location
- Vehicle status updates via the CANBus 2.0B, OBD II, and SAE J1708/J1939 interface
- Aluminum die casting housing protects against any large fluctuations in temperature or humidity
- IP65 rating ensures that it withstands extreme weather conditions



batteries

and other peripherals

### **Recommended Models**



#### VMC 1100

7" All-In-One Vehicle Computer, Intel Atom® E3825

- 800 x 480 resolution, 4-wire resistive, anti-glare touch screen
- RFID and F1~F5 function keys



#### VMC 220/2020

• Wide-range power input (9V~60V) fits different vehicles' UPS

• Built-in backup battery ensures protection of data critical to

• Built-in communication modules connects analog or IP cameras

8" Rugged Vehicle Computer, NXP i.MX 8M Quad/Intel Atom® x7-E3950

- 1280 x 720 resolution, sunlight readable (1000 nits), PCAP touch screen
- IP65 water-resistant and IK08 external damage protection ratings

### Forklift Application Requirements

- IP65 rating ensures lower risk of water/dust damaging interior electronic parts
- Sunlight readability (high brightness over 1000 nits) enhances display visibility
- IK08/09 vandal-proof rating: reduces injuries and RMA costs, while prolonging lifetime
- Backup battery for approx. 15 min. of operation when forklift battery needs to be replaced







Functionality despite rain or humidity





External damage protection



Sunlight readability Uninterruptible power supply



#### VMC 3020

10.4" Rugged Vehicle Mount Computer, Intel Atom® x5-E3930

- 1024 x 768 resolution, sunlight readable (1200 nits), 5-wire resistive touch screen
- Front panel IP65 water-resistant
- 9V~60V DC power in



#### VMC 4020

12.1" Rugged Vehicle Mount Computer, Intel Atom® x7-E3950

- 1024 x 768 resolution, sunlight readable (1200 nits), 5-wire resistive touch screen
- IP65 water-resistant rating (VMC 4020-4A1)
- 9V~60V DC power in

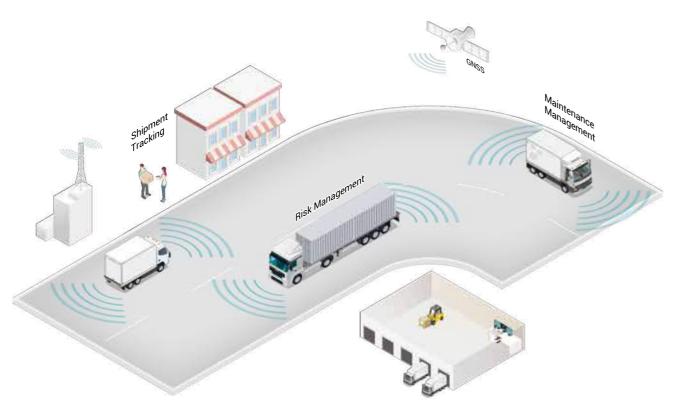
# Fleet Management -

Improving Driver Safety, Saving Energy, and Increasing Overall Fleet Efficiency



### **NEXCOM's Solutions**

- Powered by Intel® processors to quickly handle strenuous tasks
- Supports various displays: VGA, HDMI, ultraONE+
- Supports GNSS and WLAN/WWAN modules for tracking and communication
- Built-in communication ports, such as USB, COM, GPIO, and CANBus, connect peripherals and acquire vehicle data
- Rugged design and IP65 protection for reliable operations in extreme and outdoor environments
- Alternative power source with optional backup battery ensures uninterrupted data storage and transmission, regardless of vehicular power instability
- Powerful CVBS design for blind spot monitoring and collision avoidance
- SIM card switching for better signals and no roaming charges on international journeys



### **Recommended Models**



#### VTC 1910

Fanless In-Vehicle Computer, Intel Atom® Single Core E3915

- Telematics IoT gateway, super slim and ruggedized design
- Dual SIM cards for WWAN modules



#### VMC 220/2020

8" Rugged Vehicle Mount Computer, NXP i.MX 8M Quad/Intel Atom® x7-E3950

- 1280 x 720 resolution, sunlight readable (1000 nits), PCAP touch screen
- IP65 water-resistant and IK08 external damage protection ratings

# Cold Chain Logistics Application Requirements

- Real time 5G telematics easily connects all vehicles and command center
- GNSS/RD module can obtain vehicle location whenever needed to ensure that the vehicle is on course, as well as for more efficient scheduling
- CANBus function obtains car information such as internal vehicle speeds and fuel volume for better eco-driving
- PoE cameras can first capture images, then combine with Movidius VPU and OpenVINO to perform driver safety monitoring
- Uninterrupted monitoring of temperature and humiditycontrolled sensors, followed by data uploads to the cloud





GNSS/DR guides route tracking



5G telematics for fleet communication



Cold chain monitoring



#### VTC 1021-BK

Fanless In-Vehicle Computer, Intel Atom® Quad Core x5-E3940

- 3 x Expansion slots for various applications
- Built-in U-blox M8N, CANBus 2.0B, 3 x DI, 3 x DO



#### VTC 1020

Fanless In-Vehicle Computer, Intel Atom® Quad Core x5-E3930

VGA and HDMI for dual display

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■ 5 x RS232 + 2 x RS485

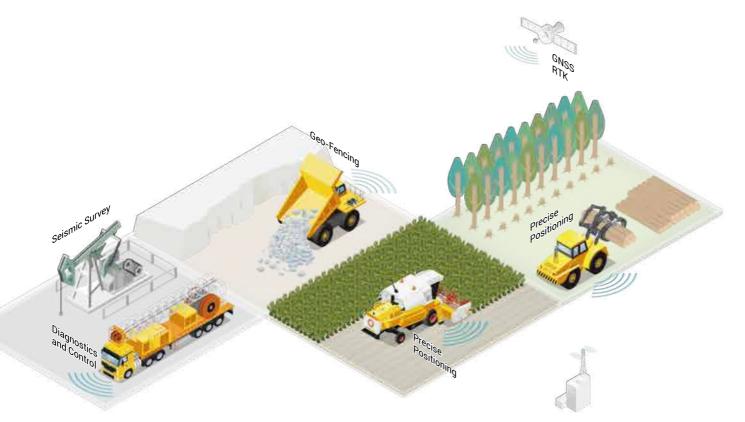
# Raw Material Management -

Born Tough to Increase Efficiency and Productivity



### **NEXCOM's Solutions**

- Powered by Intel® processors to quickly handle strenuous tasks
- High-brightness LCD touchscreen panel, with reduced reflection
- Global navigation satellite system (GPS/Glonass/Galileo/BeiDou)
   with RTK for accurate vehicle positioning
- Rugged design and IP65 protection for reliable operation in extreme and outdoor environments
- Built-in communication ports, such as USB, COM, GPIO, and CANBus, connect peripherals and acquire vehicle data
- Al applications, including object and driver behavior detection, prevent accidents



### Recommended Models



#### VMC 1100

7" All-In-One Vehicle Computer, Intel Atom® E3825

- 800x480 resolution with 4-wire resistive, anti-glare touch screen
- Operating temperature: -20°C~60°C



#### VMC 2020

8" Rugged Vehicle Mount Computer, Intel Atom® x7-E3950

- 1280 x 720 resolution, sunlight readable (1000 nits), PCAP touch screen
- IP65 water-resistant and IK08 external damage protection ratings

# Mining Application Requirements

- Rugged IP65 design prevents dust and water ingress
- PoE cameras can first capture external images, then combine with Movidius™ VPU and OpenVINO™ to perform AI applications, such as intrusion detection to avoid car collisions and face detection to identify driver fatigue
- GNSS RTK module can obtain vehicle location whenever needed to ensure vehicle is on course, as well as to reduce risk of theft
- DSRC/C-V2X module can communicate with nearby construction vehicles and signs at any time to achieve path prediction and consequently avoid the possibility of collisions
- RFID detection can protect heavy trucks from being driven arbitrarily





High-nits panel for sunlight readability

PoE cameras with OpenVINO™ Al improve safety



#### VTC 7252-7C4IP

Fanless In-Vehicle Computer, Intel® Core™ i7-9700TE

- 2 x LAN + 4 x independent PoE supported
- IP65 water- and dust-resistant rating



#### VTC 1021-BK

Fanless In-Vehicle Computer, Intel Atom® Quad Core x5-E3940

- 3 x expansion slots for various applications
- Built-in U-blox M8N, CANBus 2.0B, 3 x DI, 3 x DO

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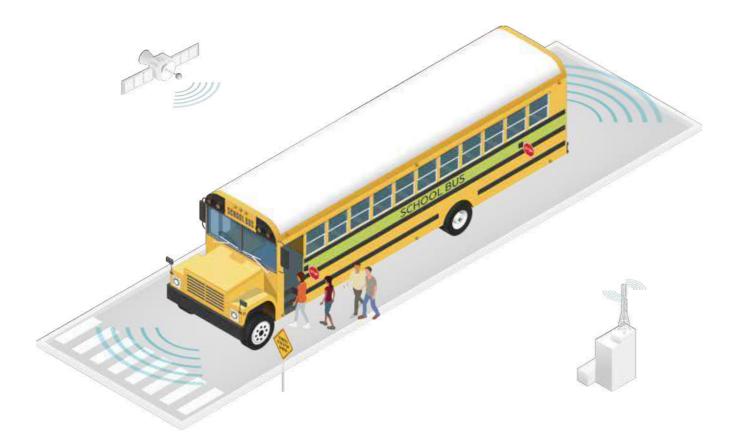
# Video Surveillance -

Enhance Mobile Security: Watch, Analyze, and React in Real Time



### **NEXCOM's Solutions**

- Connections to high-resolution IP cameras with PoE to capture clear images
- In-vehicle computer with GPU acceleration to analyze multiple video sources
- Industrial-grade vehicle displays for seamless video output
- Supports multiple WWAN networks with multiple SIMs, for reliable video transmission and remote monitoring



# **Recommended Models**



#### VTC 6222-C4S

Fanless In-Vehicle Computer, Intel Atom® Quad Core x7-E3950

- 1 x LAN + 4 x PoE supported
- 2 x External 2.5" SATA 3.0 SSD, 1 x External SD



#### VTC 7250-7C8

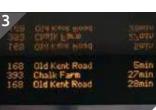
Fanless In-Vehicle Computer, Intel<sup>®</sup> Core™ i7-8700T

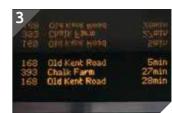
- 1 x LAN + 8 x independent PoE supported
- 2 x External 2.5" SATA 3.0 SSD supported

# **Smart Bus Application Requirements**

- Clear images, detailed information, and solid quality
- Extended compute-intensive analysis capabilities
- Rugged vehicle display shows captured images and video analytics results in real time
- Wireless communication with high bandwidth for video transmission
- Rugged and ample storage capacity









Real-time bus arrival info

Driver detection for safe driving

NVR for security



#### nROK 6222-AC4S

People counting

Fanless 4-CH PoE Rolling Stock Computer, Intel Atom® x7-E3950

- 4 x M12 X-coded PoE (802.3af/at, max. 60W) + 3 x mini-PCle expansion
- Dual external storage (compatible



#### nROK 7251-7C4

Fanless 4-CH PoE Rolling Stock Computer, Intel<sup>®</sup> Core<sup>™</sup> i7-9700TE

- 1 x LAN + 4 x independent PoE supported
- 3 x mini-PCIe and 2 x M.2 Key B slots

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26 with 15mm disk) New Product Highlights

# 2021 New Products



#### ATC 3200

# Advanced Telematics Computer for AI Applications

- NVIDIA<sup>®</sup> Jetson<sup>™</sup> TX2 SOM
- 2 x 10/100/1000 Mbps, PoE 802.3af/at, total 30W
- Optional 4-CH MIPI SerDes input for MIPI cameras
- 1 x mini-PCle socket (PCle 2.0 + USB 2.0)
- 1 x M.2 3042/3052 Key B (USB 3.0/2.0) for LTE/5G
- 9~36V DC-in with IGN control
- CE, FCC, E mark



### VTC 7252-7C4IP

# IP65 Fanless In-Vehicle Computer for Video Surveillance Applications

- Intel® Coffee Lake-S Refresh Desktop, i7-9700TE, 35W, 8 core
- IP65-rated rugged design
- 4 x 10/100/1000 Mbps, PoE 802.3af/at, total 60W
- 1 x M.2 3042/3052 Key B (USB 2.0, USB 3.1) for LTE/5G
- 2 x mini-PCle (USB 2.0, PCle 3.0/SATA 3.0) and 1 x mini-PCle (USB 2.0, PCle 3.0)
- CE, FCC, E mark



#### aROK 5510

# Advanced Rolling Stock Computer for Video Server and AI Applications

- Intel<sup>®</sup> Core<sup>™</sup> 8/9th Gen./Xeon<sup>®</sup> Coffee Lake-S platform
- 6 x External SATA 3.0 2.5" SSD with RAID 0, 1, 5, 10 supported
- Discrete PCle x16 graphics card (100W) supported
- 8 x SIM cards + 4 x WWAN modules supported
- 1 x M.2 2280/2242/2260 Key M, NVMe SSD (PCle 3.0 x4)
- DC 24/110V with isolation



#### aROK 8110

# Advanced Rolling Stock Computer for AI Applications

- Intel<sup>®</sup> Core<sup>™</sup> 8/9th Gen./Xeon<sup>®</sup> Coffee Lake-S platform
- 1 x PCle 3.0 x16 slot and 3 x PCle 3.0 x4 slot
- Dedicated fixture design for discrete graphic card and PCIe cards
- 4 x External 2.5" SATA 3.0 SSD/HDD (15mm height) with RAID 0/1/5/10 supported
- 24/36VDC power input
- CE, FCC, EN 50155 class OT4 conformity



#### nROK 7251-7A

### Fanless Rolling Stock Computer

- Intel<sup>®</sup> Coffee Lake-S Refresh Desktop, i7-9700TE, 35W, 8 Core
- 2 x mini-PCIe (USB 2.0, PCIe 3.0/SATA 3.0) and 1 x mini-PCIe (USB 2.0) for LTE
- 2 x M.2 3042/3050/3052 Key B (USB 2.0, USB 3.1 Gen2) for LTE/5G
- 2 x 2.5" SATA 3.0 SSD (removable, 15mmn)
- 24VDC power input
- CE, FCC, EN 50155 class OT4 conformity



#### nROK 7251-7C4

# Fanless Rolling Stock Computer for Video Surveillance Applications

- Intel® Coffee Lake-S Refresh Desktop, i7-9700TE, 35W, 8 Core
- 4 x 10/100/1000 Mbps M12 X-coded, PoE 802.3af/at, total 60W
- 2 x mini-PCle (USB 2.0, PCle 3.0/SATA 3.0) and 1 x mini-PCle (USB 2.0) for LTE
- 2 x M.2 3042/3050/3052 Key B (USB 2.0, USB 3.1 Gen2) for LTE/5G
- 24VDC power input
- CE, FCC, EN 50155 class OT4 conformity



#### nROK 7252-WI2-C8S

# Fanless Rolling Stock Computer for Video Surveillance Applications

- Intel® Core™ 8/9th Gen./Xeon® Coffee Lake-S platform
- 8 x 10/100/1000 Mbps M12 X-coded, PoE 802.3af/at, total 60W
- 6 x SIM cards + 3 x WWAN modules supported
- Wide power voltage input: 24, 36, 48, 72, 96 and 110VDC with isolation
- Up to 3-second protection against temporary voltage dips
- CE, FCC, EN 50155 class OT4 conformity



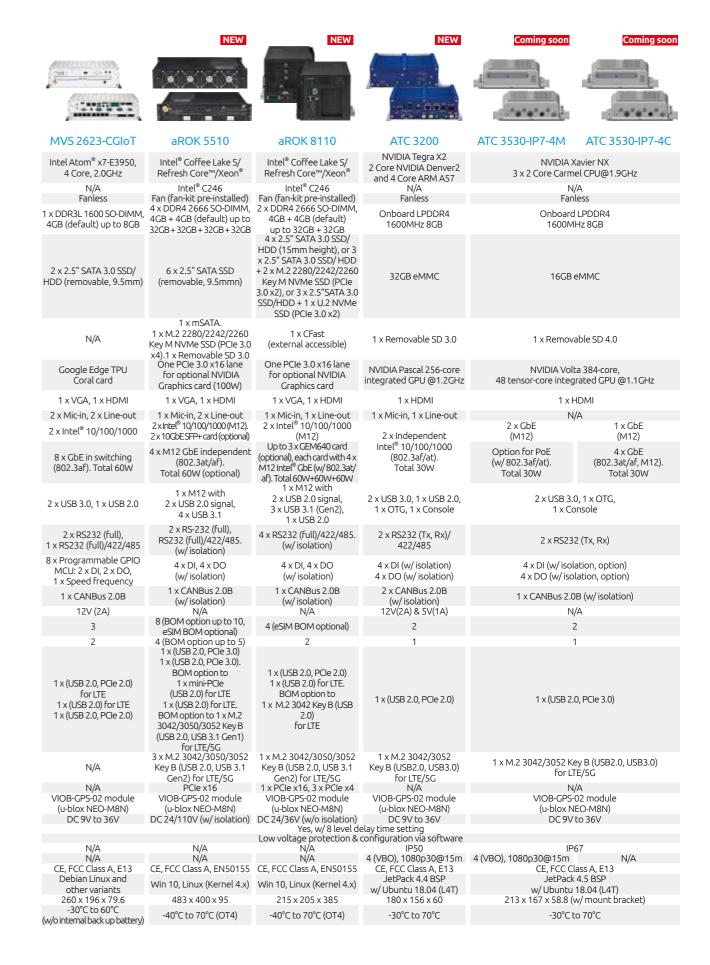
#### VMC 2020-PC1 -

#### IP65 Rugged Vehicle Mount Computer

- 8" HD IPS TFT LCD with projected capacitive touch
- Brightness: 1000 cd/m² (typical). Contrast ratio: 1000:1 (typical)
- Intel Atom® x7-E3950, 4 Core, 2.0GHz
- IP65-rated and IK08-rated rugged design
- Back-up battery & RFID module (optional)
- Wide range power input: 9V ~ 60VDC
- CE, FCC, E mark, IK08

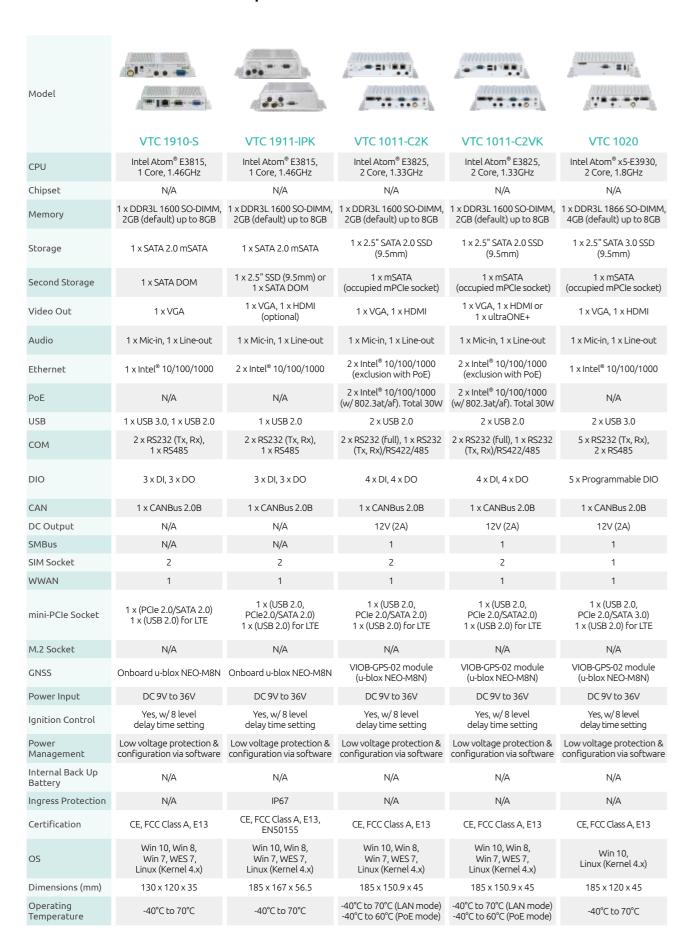
# Industrial AI Edge Telematics Computer

Model			**************************************		
	ATC 8010-7A	ATC 8010-7B	ATC 8010-7DF	ATC 8110	ATC 8110-F
CPU		Intel <sup>®</sup> Core™ i7-8700T, 6 Core, 2.4GHz		Refresh Co	ee Lake S/ re™/Xeon®
Chipset Fan/Fanless	Fan	Intel® Q370 iless	Fan (fan-kit pre-installed)	Intel® Fanless	C246 Fan (fan-kit pre-installed)
Метогу	4GB -	2 x DDR4 2400 SO-DIMM, + 4GB (default) up to 32GB +	32GB		2666 SO-DIMM, GB + 32GB
Storage		2 x 2.5" SATA 3.0 SSD (removable, 15mm)		2 x 2.5" SA HDD + 1 :	DD (removable, 15mm) or TA 3.0 SSD/ < 2.5" U.2/ 1.2 2280
Second Storage		2 x mSATA (occupied mini-PCle socket)			CFast accessible)
GPU/VPU/TPU Coprocessor	NVIDIA <sup>®</sup> GTX <sup>®</sup> 1050Ti MXM Module	Intel <sup>®</sup> Movidius™ MXM Module	NVIDIA <sup>®</sup> GTX <sup>®</sup> 1080 MXM Module		Graphics 630, n PCIe 3.0 x16 lane for aphics card (350W)
Video Out	1 x VGA, 5 x HDMI, 1 x ultraONE+	1 x VGA, 1 x ultraONE+	1 x VGA, 5 x HDMI, 1 x ultraONE+	1 x VGA,	1 x HDMI
Audio	1 % dial d d l l L	1 x Mic-in, 1 x Line-out	1 % dtal d 01 12 1		1 x Line-out
Ethernet		1 x Intel <sup>®</sup> 10/100/1000		2 x Intel <sup>®</sup> 10	0/100/1000
PoE		8 x Independent Intel® 10/100/1000 (w/ 802.3at/af). Total 60W		each card with 4 x Inte	74 card (option), l <sup>®</sup> GbE (w/ 802.3at/af). 60W
USB		6 x USB 3.1 (Gen2)		5 x USB 3.1 (Ge	n2), 1 x USB2.0
СОМ		2 x RS232 (full), 1 x RS232 (full)/422/485		4 x RS232 (f	ull)/422/485
DIO		4 x DI, 4 x DO			isolation) /isolation)
CAN DC Output	1	1 x CANBus 2.0B (w/ isolation 12V (2A)	n)		OB (w/ isolation) (2A)
SIM Socket		3 (eSIM BOM optional)			M optional)
WWAN		2		;	2
mini-PCIe Socket		1 x (USB 2.0) for LTE 1 x (USB 2.0, PCIe 3.0/SATA 3.0 1 x (USB 2.0, PCIe 3.0/SATA 3.0			.0) for LTE 0, PCIe 2.0)
M.2 Socket	1 x N	M.2 3042 Key B (USB 2.0, USE for LTE/5G	3 3.1)	for LTE/5G. Option 2 x M.2 2280 Key M NVI	ey B (USB2.0, USB 3.0) onal GE74 card w/ Me (USB 2.0, PCIe 3.0 x2)
Expansion PCIe Slot GNSS		N/A VIOB-GPS-02 module			+ propriotory, 1 x PCIe x4 02 module
GNSS Power Input		(u-blox NEO-M8N) DC 9V to 36V		(u-blox N	EO-M8N) to 36V
Ignition Control		Ye	es, w/ 8 level delay time settin	ng	10 J0V
Power Management Ingress Protection		N/A	e protection & configuration	N	/A
MIPI Inteface Certification		N/A CE, FCC Class A, E13			/A ass A, E13
OS		Win 10, Linux (Kernel 4.x)			x (Kernel 4.x)
Dimensions (mm)		260 x 259.7 x 90.1			350 (w/ fan kit)
Operating Temperature	-30°C t	to 60°C	-30°C to 50°C	-30°C t	to 60°C



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### **Vehicle Telematics Computer**





# Vehicle Telematics Computer

Model		221.1122	"		
	VTC 6220-BK	VTC 6221	VTC 6222-C4S	VTC 7230	VTC 7240
CPU	Intel Atom <sup>®</sup> x7-E3950, 4 Core, 2.0GHz	Intel Atom <sup>®</sup> x7-E3950, 4 Core, 2.0GHz	Intel Atom <sup>®</sup> x7-E3950, 4 Core, 2.0GHz	Intel <sup>®</sup> Core™ i3-5010U, 2 Core, 2.1GHz	Intel <sup>®</sup> Core™ i7-5650U, 2 Core, 3.1GHz
Chipset	N/A	N/A	N/A	N/A	N/A
Memory	1 x DDR3L 1866 SO-DIMM, 4GB (default) up to 8GB	1 x DDR3L 1600 SO-DIMM, 4GB (default) up to 8GB	1 x DDR3L 1866 SO-DIMM, 4GB (default) up to 8GB	2 x DDR3L 1600 SO-DIMM, 2GB (default) up to 16GB	2 x DDR3L 1600 SO-DIMM, 2GB (default) up to 16GB
Storage	2 x 2.5" SATA 3.0 SSD/HDD (removable, 9.5mm)	1 x 2.5" SATA 3.0 SSD (removable, 9.5mm)	2 x 2.5" SATA 3.0 SSD (removable, 15mm)	2 x 2.5" SATA 3.0 SSD/HDD (removable, 9.5mm)	2 x 2.5" SATA 3.0 SSD/HDD (removable, 9.5mm)
Second Storage	N/A	1 x CFast (external accessible), 1 x mSATA (occupied Cfast, BOM optional)	1 x SD (external accessible), 1 x Internal USB DOM	1 x CFast (external accessible)	1 x CFast (external accessible)
Video Out	1 x VGA, 1 x HDMI, 1 x LVDS (optional), 1 x ultraONE+ (optional)	2 x VGA, 1 x HDMI	1 x VGA, 2 x HDMI	1 x VGA, 1 x DP, 1 x LVDS (internal)	1 x VGA, 1 x DP, 1 x LVDS (internal)
Audio	2 x Mic-in, 2 x Line-out	1 x Mic-in, 2 x Line-out	1 x Mic-in, 2 x Line-out	2 x Mic-in, 2 x Line-out	2 x Mic-in, 2 x Line-out
Ethernet	3 x Intel <sup>®</sup> 10/100/1000 (2 x LAN exclusion with PoE)	2 x Intel <sup>®</sup> 10/100/1000, (BOM option up to 3)	1 x Intel <sup>®</sup> 10/100/1000	2 x Intel <sup>®</sup> 10/100/1000	2 x Intel <sup>®</sup> 10/100/1000
PoE	2 x Independent Intel® 10/100/1000 (w/ 802.3at/af). Total 30W (BOM optional)	N/A	4 x Intel <sup>®</sup> 10/100/1000 (w/ 802.3at/af). Total 60W	N/A	N/A
USB	2 x USB 3.0, 1 x USB 2.0	3 x USB 2.0, 1 x USB 3.0	1 x USB 3.0, 2 x USB 2.0	2 x USB 3.0, 2 x USB 2.0	2 x USB 3.0, 2 x USB 2.0
СОМ	2 x RS232 (full), 1 x RS422/485	1 x RS232 (full), 1 x RS232 (Tx, Rx), 1 x RS485	1 x RS232 (full), 1 x RS232 (Tx, Rx), 1 x RS422/485	2 x RS232 (full), 1 x RS232 (full)/422/485	2 x RS232 (full), 1 x RS232 (full)/422/485
DIO	4 x DI, 4 x DO	4 x DI, 4 x DO	4 x In (w/ isolation), 4 x Out (w/ isolation)	4 x DI, 4 x DO	4 x DI, 4 x DO
CAN	1 x CANBus 2.0B (w/ isolation)	1 x CANBus 2.0B (w/ isolation)	1 x CANBus 2.0B (w/ isolation)	1 x CANBus 2.0B	1 x CANBus 2.0B
DC Output	12V (2A)	12V (2A)	12V (2A)	12V (2A)	12V (2A)
SMBus	1	N/A	N/A	1	1
SIM Socket	4	<ol><li>(BOM option up to 8, eSIM BOM optional)</li></ol>	2 (eSIM BOM optional)	3	3
WWAN	2	3 (BOM option up to 3)	1	2	2
mini-PCIe Socket	2 x (USB 2.0, PCIe 2.0) 1 x (USB 2.0) for LTE. BOM option to 1 x M.2 3042 Key B (USB 2.0, USB 3.0) for LTE/5G	2 x (USB 2.0, PCIe 2.0) 1 x (USB 2.0) for LTE	2 x (USB 2.0, PCIe 2.0) 1 x (USB 2.0) for LTE. BOM option to 1 x M.2 3042 Key B (USB 2.0, USB 3.0) LTE/5G supported	3 x (USB 2.0, PCIe 2.0) 1 x (USB 2.0) for LTE	3 x (USB 2.0, PCIe 2.0) 1 x (USB 2.0) for LTE
M.2 Socket	1 x M.2 3042 Key B (USB 2.0, USB 3.0) for LTE/5G	1 x M.2 3042/3052 Key B (USB 2.0, USB 3.0) for LTE/5G 1 x M.2 3042 Key B (USB 2.0, USB 3.0) for LTE/5G	N/A	N/A	N/A
GNSS	VIOB-GPS-02 module (u-blox NEO-M8N)	VIOB-GPS-02 module (u-blox NEO-M8N)	u-blox NEO-M8N onboard	VIOB-GPS-02 module (u-blox NEO-M8N)	VIOB-GPS-02 module (u-blox NEO-M8N)
Power Input	DC 9V to 36V	DC 9V to 48V	DC 9V to 48V	DC 9V to 36V	DC 9V to 36V
Ignition Control	Yes, w/ 8 level delay time setting	Yes, w/ 8 level delay time setting	Yes, w/ 8 level delay time setting	Yes, w/ 8 level delay time setting	Yes, w/ 8 level delay time setting
Power Management	Low voltage protection & configuration via software	Low voltage protection & configuration via software	Low voltage protection & configuration via software	Low voltage protection & configuration via software	Low voltage protection & configuration via software
Internal Back Up Battery	Optional	N/A	N/A	N/A	N/A
Ingress Protection	N/A	N/A	N/A	N/A	N/A
Certification	CE, FCC Class A, E13	CE, FCC Class A, E13	CE, FCC Class A, E13	CE, FCC Class B, E13	CE, FCC Class B, E13
OS	Win 10, Linux (Kernel 4.x)	Win 10, Linux (Kernel 4.x)	Win 10, Linux (Kernel 4.x)	Win 10, Win 8, WES 8, Win 7, WES 7, Linux (Kernel 4.x)	Win 10, Win 8, WES 8, Win 7, WES 7, Linux (Kernel 4.x)
Dimensions (mm)	260 x 196 x 50	260 x 196 x 50	260 x 196 x 66.5	260 x 206 x 79.5	260 x 206 x 79.5
Operating Temperature	-40°C to 70°C (w/o internal backup battery)	-40°C to 70°C	-40°C to 70°C	-30°C to 55°C	-30°C to 55°C

	SIL	SIII	NEW
VTC 7250-7C8	VTC 7251	VTC 7251-7C4	VTC 7252-7C4IP
Intel <sup>®</sup> Core™ i7-8700T, 6 Core, 4.0GHz	Intel <sup>®</sup> Core™ i7-8700T, 6 Core, 4.0GHz	Intel <sup>®</sup> Core™ i7-8700T, 6 Core, 4.0GHz	Intel <sup>®</sup> Core™ i7-9700TE, 8 Core, 3.8GHz
Intel® Q370 2 x DDR4 2666 SO-DIMM, 4GB + 4GB (default) up to 32GB+32GB	Intel® Q370 2 x DDR4 2666 SO-DIMM, 4GB + 4GB (default) up to 32GB+32GB	Intel® Q370 2 x DDR4 2666 SO-DIMM, 4GB + 4GB (default) up to 32GB+32GB	Intel <sup>®</sup> C246 2 x DDR4 2666 SO-DIMM, 4GB + 4GB (default) up to 32GB+32GB
2 x 2.5" SATA 3.0 SSD (removable, 15mm)	2 x 2.5" SATA 3.0 SSD (removable, 15mm)	2 x 2.5" SATA 3.0 SSD (removable, 15mm)	2 x 2.5" SATA 3.0 SSD (15mm)
2 x mSATA 3.0	2 x mSATA 3.0	2 x mSATA 3.0	2 x mSATA 3.0, 1 x CFast (external accessible)
1 x VGA, 1 x HDMI, 1 x ultraONE+	1 x VGA, 1 x HDMI	1 x VGA, 1 x HDMI	1 x VGA, 1 x HDMI (optional)
1 x Mic-in, 1 x Line-out	1 x Mic-in, 2 x Line-out	1 x Mic-in, 2 x Line-out	1 x Mic-in, 2 x Line-out
1 x Intel® 10/100/1000	2 x Intel® 10/100/1000	1 x Intel® 10/100/1000	2 x intel <sup>®</sup> 10/100/1000
8 x Independent Intel® 10/100/1000 (w/ 802.3at/af). Total 60W	N/A	4 x Independent Intel® 10/100/1000 (w/ 802.3at/af). Total 60W	4 x Independent Intel® 10/100/1000 (w/ 802.3at/af). Total 60W
6 x USB 3.1 (Gen2) 2 x RS232 (full), 1 x RS232 (full)/422/485	6 x USB 3.1 (Gen2) 2 x RS232 (full), 1 x RS232 (full)/422/485	6 x USB 3.1 (Gen2) 2 x RS232 (full), 1 x RS232 (full)/422/485	2 x USB 3.1 (Gen2), 2 x USB 2.0 2 x RS232 (full), 1 x RS232 (full)/422/485
4 x DI, 4 x DO	4 x DI, 4 x DO	4 x DI, 4 x DO	3 x DI, 3 x DO
1 x CANBus 2.0B (w/isolation)	1 x CANBus 2.0B (w/ isolation)	1 x CANBus 2.0B (w/ isolation)	2 x CANBus 2.0B (w/ isolation)
12V (2A)	12V (2A)	12V (2A)	12V (2A)
N/A	N/A 6 (BOM option up to 8,	N/A 6 (BOM option up to 8,	N/A
3 (eSIM BOM optional)	eSIM BOM optional)	eSIM BOM optional)	2 (eSIM BOM optional)
2	3 (BOM option up to 4)	3 (BOM option up to 4)	1
2 x (USB 2.0, PCIe 3.0/SATA 3.0) 1 x (USB 2.0) for LTE. BOM option to 1 x M.2 3042 Key B (USB 2.0, USB 3.1) for LTE/5G	2 x (USB 2.0, PCIe 3.0/SATA 3.0) 2 x (USB 2.0) for LTE. BOM option to 2 x M.2 3042 Key B (USB 2.0, USB 3.1) for LTE/5G	2 x (USB 2.0, PCIe 3.0/SATA 3.0) 2 x (USB 2.0) for LTE. BOM option to 2 x M.2 3042 Key B (USB 2.0, USB 3.1) for LTE/SG	2 x (USB 2.0, PCIe 3.0/SATA 3.0) 1 x (USB 2.0, PCIe 3.0). BOM option to 1 x M.2 2230 Key E (USB 2.0, 2 x PCIe 3.0) for Dual Edge TPU
1 x M.2 3042 Key B (USB 2.0, USB 3.1) for LTE/5G	1 x M.2 3042/3052 Key B (USB 2.0, USB 3.1) for LTE/5G	1 x M.2 3042/3052 Key B (USB 2.0, USB 3.1) for LTE/5G	1 x M.2 3042/3052 Key B (USB 2.0, USB 3.1) for LTE/5G
VIOB-GPS-02 module (u-blox NEO-M8N)	VIOB-GPS-02 module (u-blox NEO-M8N)	VIOB-GPS-02 module (u-blox NEO-M8N)	VIOB-GPS-02 module (u-blox NEO-M8N)
DC 9V to 36V			
Yes, w/ 8 level delay time setting	Yes, w/ 8 level delay time setting	Yes, w/ 8 level delay time setting	Yes, w/ 8 level delay time setting
Low voltage protection & configuration via software			
N/A	N/A	N/A	N/A
N/A	N/A	N/A	IP65
CE, FCC Class A, E13			
Win 10, Linux (Kernel 4.x)			
260 x 256 x 90.1	260 x 256 x 83.5	260 x 256 x 83.5	260 x 256 x 66.5
-30°C to 60°C	-30°C to 70°C	-30°C to 60°C	-30°C to 60°C

### Railway Computer

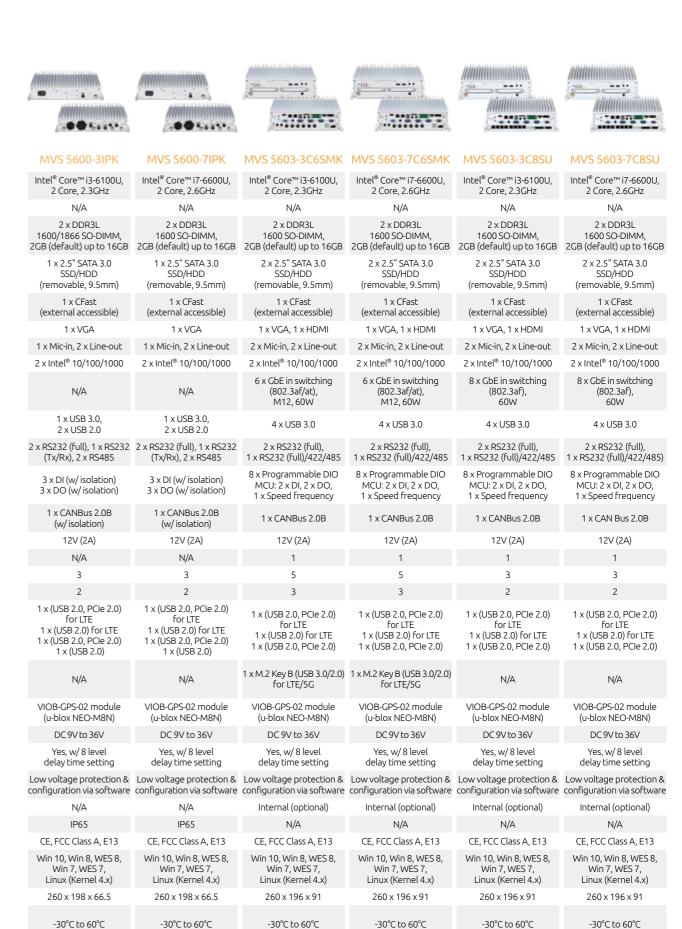
Model		23-			2 20000
	nROK 1020-A	VTC 1911-IPK	VTC 6210-R	nROK 6221	nROK 6221-IP
CPU	Intel Atom <sup>®</sup> x5-E3930, 2 Core, 1.3GHz	Intel Atom <sup>®</sup> E3815, 1 Core, 1.46GHz	Intel Atom <sup>®</sup> E3845, 4 Core, 1.91GHz	Intel Atom <sup>®</sup> x7-E3950, 4 Core, 2.0GHz	Intel Atom <sup>®</sup> x7-E3950, 4 Core, 2.0GHz
Chipset	N/A	N/A	N/A	N/A	N/A
Memory	1 x DDR3L 1866 SO-DIMM, 4GB (default) up to 8GB	1 x DDR3L 1600 SO-DIMM, 2GB (default) up to 8GB	1 x DDR3L 1600 SO-DIMM, 2GB (default) up to 8GB	1 x DDR3L 1600 SO-DIMM, 4GB (default) up to 8GB	1 x DDR3L 1866 SO-DIMM, 4GB (default) up to 8GB
Storage	1 x 2.5" SATA 3.0 SSD (removable, 9.5mm)	1 x mSATA	1 x 2.5" SATA 2.0 SSD (removable, 9.5mm)	1 x 2.5" SATA 3.0 SSD (removable, 15mm)	1 x 2.5" SATA 3.0 SSD (removable, 15mm)
Second Storage	1 x mSATA (occupied mPCle socket)	1 x 2.5" SSD (9.5mm) or 1 x SATA DOM	1 x CFast (external accessible)	1 x CFast (external accessible, default) or 1 x mSATA (occupied CFast, BOM optional)	1 x CFast (external accessible, default) or 1 x mSATA (occupied CFast, BOM optional)
Video Out	1 x VGA, 1 x HDMI	1 x VGA. 1 x HDMI (optional)	1 x VGA, 1 x DP	2 x VGA, 1 x HDMI	2 x VGA
Audio	1 x Mic-in, 1 x Line-out (M12)	1 x Mic-in, 1 x Line-out (DB15)	2 x Mic-in, 2 x Line-out (Phone Jack)	1 x Mic-in, 2 x Line-out (DB9)	1 x Mic-in, 1 x Line-out (M8)
Ethernet	1 x Intel <sup>®</sup> 10/100/1000 (M12)	2 x Intel <sup>®</sup> 10/100/1000 (M12)	2 x Intel <sup>®</sup> 10/100/1000 (M12)	2 x Intel <sup>®</sup> 10/100/1000 (M12). (additional 1 x Intel <sup>®</sup> 10/100/1000 (M12), BOM optional)	2 x Intel® 10/100/1000 (M12). (additional 1 x Intel® 10/100/1000 (M12), BOM optional)
PoE	N/A	N/A	N/A	N/A	N/A
USB	2 x USB 3.0	1 x USB 2.0	1 x M12 with 2 x USB 2.0 signal, 1 x USB 3.0	1 x M12 with 2 x USB 2.0 signal, 1 x USB 2.0, 1 x USB 3.0	1 x M12 with 2 x USB 2.0 signal, 1 x USB 3.0
СОМ	5 x RS232 (Tx, Rx), 2 x RS485	2 x RS232 (Tx, Rx), 1 x RS485	2 x RS232 (full), 1 x RS422/485. (w/ isolation)	1 x RS232 (Full), 1 x RS232 (Tx, Rx), 1 x RS485. (w/ isolation)	1 x RS232 (full), 1 x RS232 (Tx, Rx), 1 x RS485. (w/ isolation)
DIO	5 x Programmable DIO	3 x DI, 3 x DO	4 x DI, 4 x DO (w/ isolation)	4 x DI, 4 x DO (w/ isolation)	4 x DI, 4 x DO (w/ isolation)
CAN	1 x CANBus 2.0B	1 x CANBus 2.0B	1 x CANBus 2.0B	1 x CANBus 2.0B (w/ isolation)	1 x CANBus 2.0B (w/ isolation)
DC Output SMBus	12V (2A)	N/A	N/A	N/A	N/A
SIM Socket	1	N/A 2	N/A 3	N/A 6 (BOM option up to 8,	N/A 6 (BOM option up to 8,
WWAN	1	1	2	eSIM BOM optional) 3 (BOM option up to 4)	eSIM BOM optional) 3 (BOM option up to 4)
mini-PCle Socket	- 1 x (USB 2.0, PCIe 2.0/SATA 3.0) - 1 x (USB 2.0) for LTE	- 1 x (USB 2.0, PCIe2.0/SATA 2.0) - 1 x (USB 2.0) for LTE	- 1 x (USB 2.0, PCle 2.0) - 1 x (USB 2.0, PCle 2.0) for LTE - 1 x (USB 2.0) for LTE	- 1 x (USB 2.0, PCIe 2.0) - 1 x (USB 2.0, PCIe 2.0). BOM option to 1 x mini-PCIe (USB 2.0) for LTE - 1 x (USB 2.0) for LTE	- 1 x (USB 2.0, PCle 2.0)
M.2 Socket	N/A	N/A	N/A	1 x M.2 3042 Key B (USB 2.0, USB 3.0) for LTE/SG 1 x M.2 3042/3050/3052 Key B (USB 2.0, USB 3.0) for LTE/SG	1 x M.2 3042 Key B (USB 2.0, USB 3.0) for LTE/SG 1 x M.2 3042/3050/3052 Key B (USB 2.0, USB 3.0) for LTE/SG
GNSS	VIOB-GPS-02 module (u-blox NEO-M8N)	Onboard u-blox NEO-M8N	VIOB-GPS-02 module (u-blox NEO-M8N)	VIOB-GPS-02 module (u-blox NEO-M8N)	VIOB-GPS-02 module (u-blox NEO-M8N)
Power Input	DC 24V (w/o isolation)	DC 9V to 36V	DC 24/36V (w/o isolaiton), 110V (w/ isolation)	DC 24/36V (w/o isolation), DC 24/110V (w/ isolation, optional)	DC 24 (w/ isolation), DC 24/36V (w/o isolation, optional), DC 110V (w/ isolation, optional)
Ignition Control Power Management Ingress Protection	Yes, w/ 8 level delay time setting Low voltage protection & configuration via software N/A	Yes, w/8 level delay time setting Low voltage protection & configuration via software IP67	Yes, w/ 8 level delay time setting Low voltage protection & configuration via software N/A	Yes, w/ 8 level delay time setting Low voltage protection & configuration via software N/A	Yes, w/ 8 level delay time setting Low voltage protection & configuration via software IP65
Certification	CE, FCC Class A, EN50155	CE, FCC Class A, E13, EN50155	CE, FCC Class A, EN50155	CE, FCC Class A, EN50155	CE, FCC Class A, EN50155
OS	Win 10 64-bit, Linux (Kernel 4.x)	Win 10, Win 8, Win 7, WES 7, Linux (Kernel 4.x)	Win 10, Win 8, Win 7, WES 7, Linux (Kernel 4.x)	Win 10 64-bit, Linux (Kernel 4.x)	Win 10 64-bit, Linux (Kernel 4.x)
Dimensions (mm) Operating	185 x 120 x 45	185 x 167 x 56.5	260 x 176 x 70	260 x 196 x 70	260 x 198 x 70
Temperature	-40°C to 70°C (OT4)	-40°C to 70°C (OT4)			



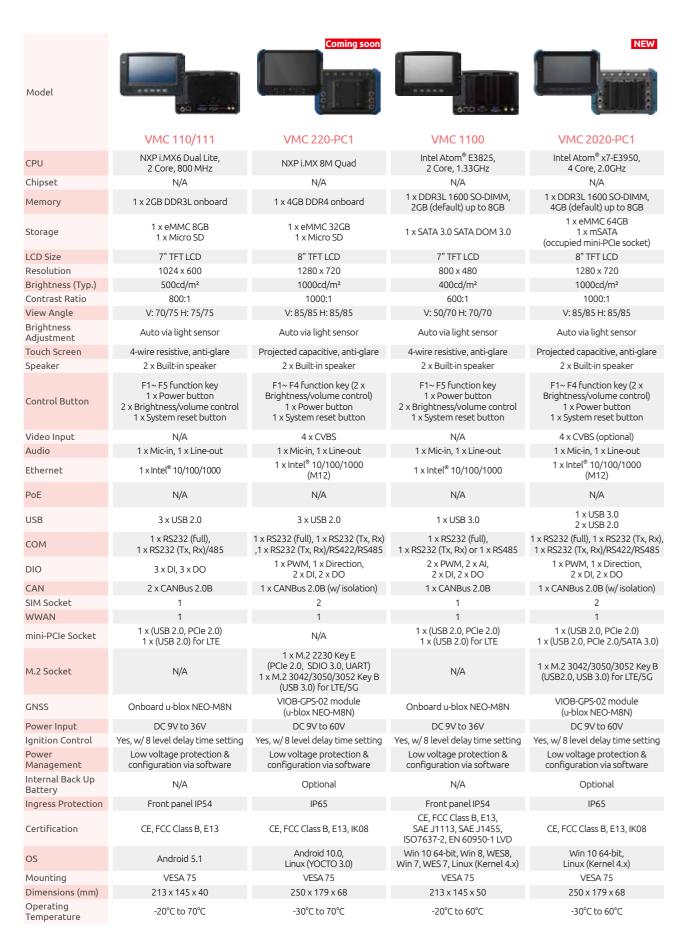
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# Modular Vehicle Computer System

Model			TENEDE TO		
	MVS 2620-IPK	MVS 2623-C6SMK	MVS 2623-C8SK	MVS 5600-3BU	MVS 5600-7BU
CPU	Intel Atom® x7-E3950, 4 Core, 2.0GHz	Intel Atom <sup>®</sup> x7-E3950, 4 Core, 2.0GHz	Intel Atom® x7-E3950, 4 Core, 2.0GHz	Intel <sup>®</sup> Core™ i3-6100U, 2 Core, 2.3GHz	Intel <sup>®</sup> Core™ i7-6600U, 2 Core, 2.6GHz
Chipset	N/A	N/A	N/A	N/A	N/A
Memory	1 x DDR3L 1866 SO-DIMM, 4GB (default) up to 8GB	1 x DDR3L 1866 SO-DIMM, 4GB (default) up to 8GB	1 x DDR3L 1866 SO-DIMM, 4GB (default) up to 8GB	2 x DDR3L 1600/1866 SO-DIMM, 2GB (default) up to 16GB	2 x DDR3L 1600/1866 SO-DIMM, 2GB (default) up to 16GB
Storage	1 x 2.5" SATA 3.0 SSD/HDD	2 x 2.5" SATA 3.0 SSD/HDD (removable, 9.5mm)	2 x 2.5" SATA 3.0 SSD/HDD (removable, 9.5mm)	1 x 2.5" SATA 3.0 SSD/HDD (removable, 9.5mm)	1 x 2.5" SATA 3.0 SSD/HDD (removable, 9.5mm)
Second Storage	1 x CFast (external accessible)	N/A	N/A	1 x CFast (external accessible)	1 x CFast (external accessible)
Video Out	1 x VGA	1 x VGA, 1 x HDMI			
Audio	1 x Mic-in, 2 x Line-out	2x Mic-in, 2 x Line-out	2 x Mic-in, 2 x Line-out	2 x Mic-in, 2 x Line-out	2 x Mic-in, 2 x Line-out
Ethernet	2 x Intel <sup>®</sup> 10/100/1000	2 x Intel® 10/100/1000	2 x Intel <sup>®</sup> 10/100/1000	2 x Intel <sup>®</sup> 10/100/1000	2 x Intel <sup>®</sup> 10/100/1000
PoE	N/A	6 x GbE in switching (802.3af/at), M12 A-coded, 60W	8 x GbE in switching (802.3af), 60W	N/A	N/A
USB	3 x USB 2.0	2 x USB 3.0, 1 x USB 2.0	2 x USB 3.0, 1 x USB 2.0	4 x USB 3.0	4 x USB 3.0
СОМ	2 x RS232 (Full), 1 x RS232 (Tx/Rx), 2 x RS485	2 x RS232 (full), 1 x RS232 (full)/422/485			
DIO	3 x DI (w/ isolation) 3 x DO (w/ isolation)	8 x Programmable DIO MCU: 2 x DI, 2 x DO, 1 x Speed frequency	8 x Programmable DIO MCU: 2 x DI, 2 x DO, 1 x Speed frequency	8 x Programmable DIO MCU: 2 x DI, 2 x DO, 1 x Speed frequency	8 x Programmable DIO MCU: 2 x DI, 2 x DO, 1 x Speed frequency
CAN	1 x CANBus 2.0B (w/ isolation)	1 x CANBus 2.0B			
DC Output	12V (2A)	12V (2A)	12V (2A)	12V (2A)	12V (2A)
SMBus	N/A	1	1	1	1
SIM Socket	3	5	3	3	3
WWAN	2	3	2	2	2
mini-PCIe Socket	1 x (USB 2.0, PCIe 2.0) for LTE 1 x (USB 2.0) for LTE 1 x (USB 2.0, PCIe 2.0) 1 x (USB 2.0)	1 x (USB 2.0, PCIe 2.0) for LTE 1 x (USB 2.0) for LTE 1 x (USB 2.0, PCIe 2.0)	1 x (USB 2.0, PCIe 2.0) for LTE 1 x (USB 2.0) for LTE 1 x (USB 2.0, PCIe 2.0)	1 x (USB 2.0, PCIe 2.0) for LTE 1 x (USB 2.0) for LTE 1 x (USB 2.0, PCIe 2.0)	1 x (USB 2.0, PCIe 2.0) for LTE 1 x (USB 2.0) for LTE 1 x (USB 2.0, PCIe 2.0)
M.2 Socket	N/A	1 x M.2 3042 Key B (USB 2.0, USB 3.0) for LTE/5G	N/A	N/A	N/A
GNSS	VIOB-GPS-02 module (u-blox NEO-M8N)	VIOB-GPS-02 module (u-blox NEO-M8N)	VIOB-GPS-02 module (u-blox NEO-M8N)	VIOB-GPS-02 module (u-blox NEO-M8N)	VIOB-GPS-02 module (u-blox NEO-M8N)
Power Input	DC 9V to 36V	DC 9V to 36V	DC 9V to 36V	DC 9V to 36V	DC 9V to 36V
Ignition Control	Yes, w/ 8 level delay time setting	Yes, w/ 8 level delay time setting	Yes, w/ 8 level delay time setting	Yes, w/ 8 level delay time setting	Yes, w/ 8 level delay time setting
Power Management	Low voltage protection & configuration via software	Low voltage protection & configuration via software	Low voltage protection & configuration via software	Low voltage protection & configuration via software	Low voltage protection & configuration via software
Back Up Battery	N/A	Internal (optional)	Internal (optional)	Internal (optional)	Internal (optional)
Ingress Protection	IP65	N/A	N/A	N/A	N/A
Certification	CE, FCC Class A, E13	CE, FCC Class A, E13	CE, FCC Class A, E13	CE, FCC Class A, E13	CE, FCC Class A, E13
OS	Win 10, Linux (Kernel 4.x)	Win 10, Linux (Kernel 4.x)	Win 10, Linux (Kernel 4.x)	Win 10, Win 8, WES 8, Win 7, WES 7, Linux (Kernel 4.x)	Win 10, Win 8, WES 8, Win 7, WES 7, Linux (Kernel 4.x)
Dimensions (mm)	260 x 198 x 50	260 x 196 x 79.6	260 x 196 x 79.6	260 x 196 x 66.5	260 x 196 x 66.5
Operating Temperature	-40°C to 70°C	-40°C to 70°C (w/o internal back up battery)	-40°C to 70°C (w/o internal back up battery)	-30°C to 60°C (w/o internal back up battery)	-30°C to 60°C (w/o internal back up battery)



# Vehicle Mount Computer











Title			
VMC 3020	VMC 3021	VMC 4020-4A0	VMC 4020-4A1
Intel Atom <sup>®</sup> x5-E3930, 2 Core, 1.3GHz	Intel Atom <sup>®</sup> x7-E3950, 4 Core, 2.0GHz	Intel Atom <sup>®</sup> x7-E3950, 4 Core, 2.0GHz	Intel Atom <sup>®</sup> x7-E3950, 4 Core, 2.0GHz
N/A	N/A	N/A	N/A
1 x DDR3L 1866 SO-DIMM slot 4GB (default) up to 8GB	1 x DDR3L 1866 SO-DIMM slot 4GB (default) up to 8GB	1 x DDR3L 1866 SO-DIMM slot 4GB (default) up to 8GB	1 x DDR3L 1866 SO-DIMM slot 4GB (default) up to 8GB
1 x CFast 1 x 2.5" SSD bay (9.5mm)	1 x CFast 1 x 2.5" SSD bay (9.5mm)	1 x CFast 1 x 2.5" SSD bay (9.5mm)	1 x CFast 1 x 2.5" SSD bay (9.5mm)
10.4" TFT LCD	10.4" TFT LCD	12.1" TFT LCD	12.1" TFT LCD
1024 x 768	1024 x 768	1024 x 768	1024 x 768
1200cd/m²	1200cd/m²	1200cd/m²	1200cd/m²
900:1	900:1	750:1	750:1
V: 85/85 H: 85/85	V: 85/85 H: 85/85	V: 85/85 H: 85/85	V: 85/85 H: 85/85
Auto via light sensor	Auto via light sensor	Auto via light sensor	Auto via light sensor
5-wire resistive, anti-glare	5-wire resistive, anti-glare	5-wire resistive, anti-glare	5-wire resistive, anti-glare
2 x Built-in speaker	2 x Built-in speaker	2 x Built-in speaker	2 x Built-in speaker
1 x Power button 2 x Brightness control 2 x Volume control 5 x Function key 1 x Shift key	1 x Power button 2 x Brightness control 2 x Volume control 5 x Function key 1 x Shift key	1 x Power button 2 x Brightness control 2 x Volume control 5 x Function key 1 x Shift key	1 x Power button 2 x Brightness control 2 x Volume control 5 x Function key 1 x Shift key
N/A	3 x CVBS	3 x CVBS	3 x CVBS
1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out	1 x Mic-in, 1 x Line-out
1 x Intel <sup>®</sup> 10/100/1000	1 x Intel <sup>®</sup> 10/100/1000 (M12)	2 x Intel <sup>®</sup> 10/100/1000	2 x Intel <sup>®</sup> 10/100/1000 (M12)
N/A	1 x (802.3af/at). Total 30W (optional)	1 x (802.3af/at). Total 30W (optional)	1 x (802.3af/at). Total 30W (optional)
2 x USB 2.0 (5V/1.0A) 1 x Power USB (5V/1.5A, 12V/1.5A)	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
2 x Powered RS232 (full, 5V/1.5A, 12V/1.5A)	1 x RS232 (Full)/422/485, 1 x RS232 (Tx, Rx)/422/485	2 x RS232 (full)/422/485	1 x RS232 (full)/422/485, 1 x RS232 (Tx, Rx)/422/485
2 x DI, 2 x DO	2 x DI, 2 x DO	1 x DI, 2 x DO	2 x DI, 2 x DO
1 x CANBus 2.0B (w/ isolation)	2 x CANBus 2.0B (w/ isolation)	2 x CANBus 2.0B (w/ isolation)	2 x CANBus 2.0B (w/ isolation)
1	1	1	1
1 x (USB 2.0, PCle 2.0)	3 x (USB 2.0, PCIe 2.0)	3 x (USB 2.0, PCle 2.0)	3 x (USB 2.0, PCle 2.0)
1 x (USB 2.0) for LTE	1 x (USB 2.0) for LTE	1 x (USB 2.0) for LTE	1 x (USB 2.0) for LTE
1 x M.2 2230 Key E (USB 2.0, PCIe 2.0, SDIO 3.0, UART)	N/A	N/A	N/A
Optional	VIOB-GPS-02 module (u-blox NEO-M8N)	VIOB-GPS-02 module (u-blox NEO-M8N)	VIOB-GPS-02 module (u-blox NEO-M8N)
DC 9V to 60V	DC 9V to 60V	DC 9V to 60V	DC 9V to 60V
Yes, w/8 level delay time setting	Yes, w/ 8 level delay time setting	Yes, w/ 8 level delay time setting	Yes, w/ 8 level delay time setting
Low voltage protection & configuration via software	Low voltage protection & configuration via software	Low voltage protection & configuration via software	Low voltage protection & configuration via software
Optional	Optional	Optional	Optional
Front Panel IP65	IP65	Front IP65	IP65
CE, FCC Class B, E13	CE, FCC Class B, E13	CE, FCC Class B, E13	CE, FCC Class B, E13
Win 10 64-bit,	Win 10 64-bit,	Win 10 64-bit,	Win 10 64-bit,
Linux (Kernel 4.x)	Linux (Kernel 4.x)	Linux (Kernel 4.x)	Linux (Kernel 4.x)
VESA 75/100	VESA 75/100	VESA 75/100	VESA 75/100
290 x 230 x 68	290 x 230 x 68	340 x 262 x 75	340 x 262 x 75
30°C to 60°C	30°C to 60°C	30°C to 60°C	30°C to 60°C

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-30°C to 60°C

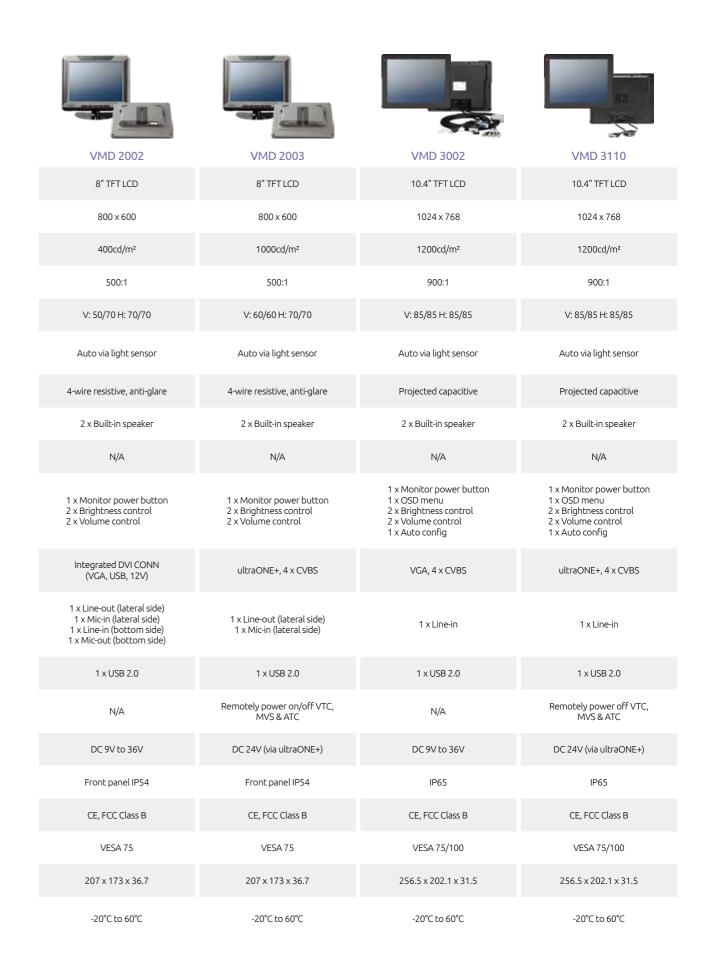
-30°C to 60°C

-30°C to 60°C

-30°C to 60°C

# Vehicle Mount Display



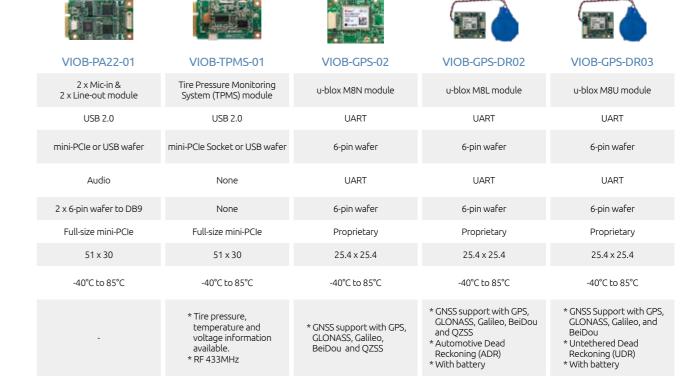


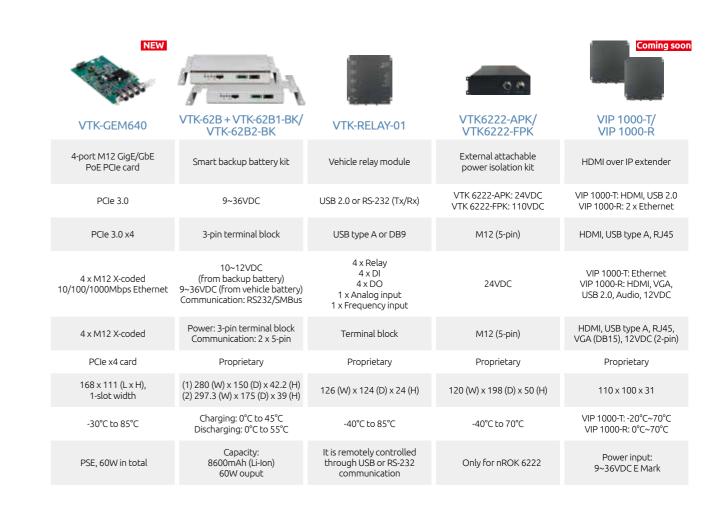
Vehicle Mount Display 4

### Add-On Modules and Devices

Model		4 10			
	AlBooster-X1	VIOB-CAN-03	VIOB-CAN-04-RAG	VIOB-CAN-05	VIOB-CAN-06
Description	Intel <sup>®</sup> Movidius™ MA 2485 x 1	CANBus 2.0B or OBD SAE J1939 module	Dual CANBus 2.0B module	SAE J1708 module	OBD SAE J1939 module
Input I/F	PCle	UART	USB 2.0	USB 2.0	USB 2.0
Input Connector	mini-PCle socket	2 x 5-pin wafer	mini-PCle Socket	mini-PCle Socket or USB wafer	mini-PCle Socket or USB wafer
Output I/F	N/A	CANBus 2.0B or OBD SAE J1939	CANBus 2.0B	SAE J1708/J1587/J1922	OBD SAE J939
Output Connector	N/A	2 x 5-pin wafer	6-pin wafer to DB9	3-pin wafer to DB9	3-pin wafer to DB9
Form Factor	Full-size mini-PCIe	Proprietary	Full-size mini-PCIe	Full-size mini-PCIe	Full-size mini-PCIe
Dimensions (mm)	51 x 30	50 x 28	51 x 30	51 x 30	51 x 30
Operating Temperature	-30°C to 70°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Remark	Intel <sup>®</sup> Movidius™ VPU AI module	* CANBus 2.0B & SAE J1939 selection by switch	-	,-	

Model		<b>k</b> ··			
	VIOB-LTE-AD-02	VIOB-LTE-AD-03	VIOB-AE1M-01	VTK-GE64	VIOP-GE74
Description	mini-PCIe to M.2 converter module	M.2 to mini-PCIe converter module	1-port 100Mbps automotive Ethernet module	4-port GbE/GigE PoE PCIe card	4-port GbE/GigE PoE PCIe card
Input I/F	USB 2.0	USB 2.0, USB 3.0	USB 2.0	PCIe 3.0	PCle 3.0
Input Connector	mini-PCle	M.2 Key B + M	mini-PCle or USB wafer	PCle 3.0 x4	PCle 3.0 x4 + Proprietary G.F.
Output I/F	M.2 3042 Key B	mini-PCle	1-pair UTP	4x 10/100/1000Mbps Ethernet	4 x 10/100/1000Mbps Ethernet & 2 x M.2 2280 Key M NVMe storage
Output Connector	M.2 (socket)	mini-PCle (socket)	4 -pin wafer to DB9	4 x RJ45 (M12 in option)	4 x RJ45 (M12 in option)
Form Factor	Full-size mini-PCIe	M.2 3042/3052 Key B + M	Full-size mini-PCIe	PCle x4 card	PCIe x4 card
Dimensions (mm)	51 x 30	62 x 31	51 x 30	168 x 111 (L x H), 1-slot width	190 x 111 (L x H), 1-slot width
Operating Temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-30°C to 85°C	-30°C to 85°C
Remark	* Only for Sierra EM7430/EM7455	* Only for LTE module	* BroadR-reach technology	PSE, 60W in total	PSE, 60W in total





Product Selection Tables

About NEXCOM

### Railway Computer -Panel PC

# Vehicle Network Switch

	Coming so
Model	
	vROK 3030
CPU	Intel Atom <sup>®</sup> x6414RE, 4 Core, 1.50GHz
Chipset	N/A
Memory	1 x DDR4 266 SO-DIMM, 4GB (default) up to 8GB
Storage	1 x mSATA (occupied mini-PCle socket) 1 x 2.5" SSD bay (9.5mm)
LCD Size	10.4" TFT LCD
Resolution	1024 x 768
Brightness (Typ.)	1200cd/m²
Contrast Ratio	900:1
View Angle	V: 85/85 H: 85/85
Brightness	Auto via light sensor
Adjustment Touch Screen	Projected capacitive, anti-glare
Speaker	N/A
Control Button	32 Keypads (compliant with UIC 612-01 layout, BOM optional)
Video Input	4 x CVBS
Audio	1 x Line-in, 2 x Line-out (DB9)
Ethernet	2 x Intel <sup>®</sup> 10/100/1000 (M12)
PoE	Optional
USB	1 x USB 3.1
СОМ	2 x RS232 (Full)/422/485
DIO	4 x DI, 2 x DO (w/ isolation)
CAN	1 x CANBus 2.0B (BOM optional
SIM Socket	2
WWAN	1
mini-PCIe Socket	1 x (USB 2.0, PCIe 3.0), 1 x (USB 2.0, PCIe 3.0/SATA 3.0)
M.2 Socket	1 x M.2 3042/3050/3052 Key B (USB 2.0, USB 3.1 Gen2) for LTE/5
GNSS	Optional
Power Input	DC 24/36V (w/o isolation) DC 24/110V (w/ isolation, optional
Ignition Control	Yes, w/ 8 level delay time setting
Power Management	Low voltage protection & configuration via software
Internal Back Up Battery	N/A
Ingress Protection	Front panel IP65
Certification	CE, FCC Class A, EN50155, EN45545-2
OS	Win 10 64-bit, Linux (Kernel 4.x)
	VESA 75/100
Mounting	125/115/100
Mounting Dimensions (mm)	310 x 214 x 70

Model	1 11	1 H H • ****
	VES30-4S	VES30-8S
Architecture	Unmanaged GbE switch	Unmanaged GbE switch
PoE	4 x Intel <sup>®</sup> 10/100/1000 (w/ 802.3af). Total 60W	8 x Intel <sup>®</sup> 10/100/1000 (w/ 802.3af). Total 120W
Ethernet	1 x Intel <sup>®</sup> 10/100/1000	1 x Intel <sup>®</sup> 10/100/1000
LED	1 x power indicator 4 x PoE indicator 1 x Low voltage protection indicator	1 x power indicator 8 x PoE indicator 1 x Low voltage protection indicator
Dimensions (mm)	167 x 139.6 x 51.49	167 x 139.6 x 51.49
Ignition Control	Yes	Yes
Power Management	Low voltage protection & power on/off delay time	Low voltage protection & power on/off delay time
Power Input	DC 9V to 36V	DC 9V to 36V
Certification	CE, FCC Class B, E13	CE, FCC Class B, E13
Operating Temperature	-30°C to 70°C	-30°C to 70°C
Operating Temperature	-30°C to 70°C	-30°C to 70°C

# About NEXCOM

# Reliable Partner for the Intelligent Solutions — Committed to Customer Success

Founded in 1992 and headquartered in Taipei, Taiwan, NEXCOM is committed to being your trustworthy partner in building the intelligent solutions. To surpass customers' expectations, NEXCOM makes the difference by utilizing its decades of industrial computing experience, a highly talented R&D team, and by providing exceptional levels of customer service. With these core strengths, NEXCOM has enabled its customers to win key projects in a diverse range of industries.

With its focus on delivering these core values to better serve customers, NEXCOM integrates its capabilities and operates six global businesses, which are IoT Automation Solutions, Intelligent Video Security, Intelligent Platform @ Smart City, Mobile Computing Solutions, Medical

and Healthcare Informatics, Network and Communication Solutions.

This strategic deployment enables NEXCOM to offer time-to-market, time-to-solution products and service without compromising cost.

In addition, the service-to-market business model gives NEXCOM core competence to build a strong world-class service network by providing customized service, global logistics, local access, and real-time support. Operating six subsidiaries, from China, Japan, Taiwan, the United

States, to the United Kingdom, NEXCOM is able to better facilitate customers' requirements as well as closely work with global partners in different regions.

Partners should also be assured that NEXCOM's Taiwan based Headquarters and subsidiary offices in China, UK and USA have obtained ISO 9001:2008 Certification.



IAS Industrial Ro

IoT Automation Solutions: Industrial Automation & I4.0 Execution, Intelligent Edge, Gateway & EWR, Industrial Robot Control, EtherCAT Motion Solutions, Wireless & Embedded Solutions for Industrial IoT

IDS

Intelligent Video Surveillance: IP Video Surveillance Cameras, Mobile Cameras, ANPR/LPR Network Cameras, Panoramic Cameras, NVR Server Platform



Intelligent Platform @ Smart City: Smart City, Smart Retail, Digital Signage, Interactive Kiosks, Hospitality, Gateway, AI Edge and ODM Customization Services



Mobile Computing Solutions: Rugged Vehicular Computers and Equipment, Vehicular Telematics Computers, Railway Computers, In-Vehicle AI



Medical and Healthcare Informatics: Total Solutions with a Variety of Medical IT Systems



Network and Communication Solutions: Network Security, HPC, Telecommunications, Storage, SDN/NFV, Industrial Security

### Corporate Vision

To become the industrial leader in providing intelligent solutions, NEXCOM utilizes its industry leading technology, localized customer support and worldwide logistics services. This will be achieved by:

- Great team work
- Cooperation with trusted partners
- Growth through innovation

### Corporate Mission

- An innovative supplier in vertical application markets
- A quality partner in engineering, manufacturing and services

### **Business Strategy**

Aim to better support the activities of all its partners, NEXCOM divides its sales force into eight dedicated business units to target rapidly expanding vertical markets. This enhances each business unit concentrating on strategic channel accounts and on repeat order business. Moreover, NEXCOM's business units have been set up to serve the requirements of key project accounts, where product ODM and project support are frequently required.

NEXCOM is working with embedded computing solution providers to envision new opportunities for growth. We'll help you deliver reliable vertical solutions, optimized for the next wave of IoT and Industry 4.0 solutions.

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