Think Big, Think IoV

2020 Mobile Computing Solutions Product Selection Guide

www.nexcom.com
New Product Highlights
Industrial AI Edge Computer

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<td>Smart Factory</td>
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**NEXCOM’s Solutions**

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<tr>
<th>Google Coral</th>
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<tr>
<td>M.2/mini-PCIe</td>
<td>PCIe/ TX2/Xavier NX/MXM</td>
<td>mini-PCIe/MXM/PCIe</td>
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</table>

**Communications Hub and Passenger Information System**
- More than 3 x LTE modules, with 2 x SIM slot for each modem, 2 x WLAN for Wi-Fi broadcast, and GPS for data/video transmission and location tracking
- Reserved special M.2 designed to support 5G module so that you can attain quicker transmission speeds with low latency
- 24”, 27”, 32” Passenger Information Panel PC with full HD, wide ranger power input 12 to 36V DC for train station, airports and bus
- Rugged design with shock and vibration protection, E Mark computer platform for WWAN/WLAN/GPS modulation installation

**New Models**

- **VTC 6221**: Vehicle Computer with Intel® Atom® E3950
- **VTC 7251**: Vehicle Computer with Intel® Core™ 8th Gen. CPU
- **nROK 6221**: Railway Computer with Intel Atom® E3950
- **VPC 2400**: Passenger Information System with Intel Atom® E3930

**Onboard Video Surveillance Platform**
- Support high resolution PoE camera for recording both driver cabs and passenger areas
- Hot-swap and RAID protection storage to store video feed from cameras
- Rugged design with shock and vibration protection, E Mark, ENS0155 computer platform for VMS software installation
- Protection against temporary voltage dips to avoid system fault
- More than 3 x LTE (or 5G) module with 2 x SIM slot for each modem, 10GbE network, and GPS for data/video transmission and location tracking

**New Models**

- **VTC 6222**: Fanless 4-CH PoE Vehicle Computer
- **VTC 7251-7C4**: Vehicle Computer with Intel® Core™ 8th Gen. CPU with 4-CH PoE
- **nROK 6222**: Railway Computer with Intel Atom® E3950 with 4-CH PoE
- **nROK 7252-C8S**: Railway Computer with 4-CH PoE Intel® 9th Gen. Core™ or Xeon®
Our Core Competency -
Building Foundation for Interconnected IoV and Value-Added Innovation

Ahead of AI + Mobile Edge Computing in the 5G Era
- Specialize in NVIDIA®, Intel® Movidius and Google Coral
- Support partners to drive deeper customer engagement in AI + mobile edge computing applications
- Provide edge processing and AI capabilities to software partners/developers to create innovation and new business models
- Improve the efficiency of collecting rich data and the precise measurement capability for optimal local decision making

Keep Up with the Trends and Introduce New Technologies
- Close relationship with key silicon players
- Familiar with ARM/X86 platform and Linux/Windows/Android OS
- Specialize in GPU technology and develop MMX, PCIe, SoM, mini-PCIe and M.2 module with GPU
- DSRC, 4G LTE/5G NR, NB-IoT and LoRa wireless communication technologies
- Automotive Ethernet, a new vehicle internal network
- Solid programming skill, good understanding on S/W and H/W integration

Solid Technical Capability to Bring Benefits to Customers
- Over 20 years of experience in designing rugged devices and over 10 years in designing vehicle/railway computers
- Long distance high-quality video content delivery
- Low cost and easy maintenance with single cable (video/USB/audio/power) design
- Fanless design and IP67 protection for extreme environmental conditions
- IK08 impact resistance on external mechanics
- Profound expertise and extensive hands-on experience in CAN/SAE J1939/SAE J1708
- Familiar with CISPR25 standard
- Smart in-vehicle UPS design for uninterrupted operation

Software Development Support
- Rich experience in supporting Linux, Android and Windows OS
- SDK supports for Linux, Android and Windows OS
- Provide utility and sample code for API usage and programming guide for user to customize their software

Quick OEM/ODM Customized Service

Challenges
- Traditional ODM Process
  - Working samples in 30 Workdays
  - The redesign takes 6+ M Workdays
  - A rise in development costs

Benefits
- NEXCOM’s Solution
  - 50% Working samples in 30 Workdays
  - The redesign takes 6+ M Workdays
  - 50% A rise in development costs
  - 75% Development costs cut by 40%
Internet of Vehicles (IoV) -
Creating a Fully - Encompassing Car Ecosystem Through IoV Innovation

NEXCOM’s Product Line
- Industrial AI Edge Computer
- Vehicle Telematics Computer
- Vehicle Mount Computer
- Modular Vehicle Computer System
- Advanced Telematics Computer
- Vehicle Mount Display
- Railway Computer
- In-Vehicle Networking

Public Sector
- Smart Public Transit
- Public Safety
- Public Works

Logistics
- Port Management
- Warehouse
- Fleet Management

Raw Material Management
- Agriculture
- Logging
- Mining

First Response Vehicles
- Law Enforcement
- Emergency Services

Vertical Industry Applications

Raw Material
- Agriculture
- Logging
- Mining
Autonomous Driving -
Deep Learning Makes the Autonomous Car Perceptive and Practical

Key Requirements
- Keen calculations of complicated algorithms to determine the proximity of pedestrians and vehicles.
- Flexible design to fulfill different graphic performance requirements.
- Extended connectivity with different peripherals such as IP cameras, light detection and ranging (LiDAR), radar, and so on.
- Low-latency signal transmission.
- Rugged design for add-on GPU module to provide vibration and shock protection on the road.
- Avoid the loss of critical data and video record.
- Precise location of the vehicle.

NEXCOM’s Solutions
- Wide selection for GPU engines from NVIDIA GeForce GTX10/RTX20 series, Intel® Movidius and Google Coral.
- GPU acceleration by MXM mobile PCI express module and PCIe x16 lane card, specially designed for mobile applications.
- Multiple connectivity: PoE, DIO, USB and RS232/422/485 for external peripherals.
- 10G LAN port for demanding data transmission.
- RAID 0, 1, 5 and 10 to increase data security and integrity.
- Global navigation satellite system (GNSS) and WWAN connections for accurate positioning of the vehicle.

<table>
<thead>
<tr>
<th>Model</th>
<th>VTC 7250-TCA</th>
<th>VTC 7251-TCA</th>
<th>ATC 8010</th>
<th>ATC 8110</th>
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</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Intel® Core™ i7-8700T</td>
<td>Intel® Core™ i7-8700T</td>
<td>Coffee Lake Refresh (LGA1151)</td>
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<tr>
<td>AI Expansion</td>
<td>mPCIe slot (x1 lane)</td>
<td>mPCIe slot (x1 lane)</td>
<td>mPCIe slot (x1 lane)</td>
<td>PCIe x16 lane</td>
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<td>1 x M.2, 3 M.2, 4 M.2</td>
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<td>PoE</td>
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<td>4</td>
<td>8</td>
<td>4/8 option</td>
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<tr>
<td>AI Accelerator</td>
<td>Movidius/ Coral</td>
<td>Movidius/ Coral</td>
<td>NVIDIA/ Movidius</td>
<td>NVIDIA/ Movidius</td>
</tr>
</tbody>
</table>
Vertical Industry Applications

### Smart Public Transit -
Smart Bus Ride to a Safe, Green, Fun and Comfortable Tomorrow

#### Key Requirements
- Safety of passengers and vehicles with active alerts and continuous surveillance
- Lane departure detection
- Public address system and multi-way intercom between driver and in and out passengers
- Automatic passenger counting to improve scheduling, routes, and revenue
- Passenger information displays
- Uninterrupted Wi-Fi service and WWLAN connection
- Roaming charges on international journeys

#### NEXCOM’s Solutions
- PC-based in-vehicle NVRs for real-time surveillance with live-view, recording, and playback features
- Powerful computing enables passenger counting using face detection to adjust the departure frequency, evaluate better bus routes, and compute a revenue forecast for enhanced management
- Built-in communication ports to connect devices such as vehicle signage, card readers, safety sensors and IP cameras
- Multiple Wi-Fi and cellular modules with multiple SIM slots for use as a mobile router to provide uninterrupted internet onboard with different internet service providers (ISP)
- Multi-SIM with carrier switch enables better signal in remote areas and avoids roaming charges on international journeys

#### NEXCOM's Products

<table>
<thead>
<tr>
<th>Model</th>
<th>VTC1021-C2K</th>
<th>VTC6220</th>
<th>VTC8221</th>
<th>VTC7251-7C4</th>
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<tbody>
<tr>
<td>CPU</td>
<td>Intel Atom® Apollo Lake (E3940)</td>
<td>Intel Atom® Apollo Lake (E3950)</td>
<td>Intel Atom® Apollo Lake (E3950)</td>
<td>Intel® Core™ i7-8700T</td>
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<tr>
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<td>2 x WWAN, 2 x WLAN</td>
<td>3 x WWAN, 2 x WLAN</td>
<td>3 x WWAN, 2 x WLAN</td>
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<td>2 EOM option</td>
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<td>4</td>
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<td>Harsh Environment</td>
<td>-40°C~70°C/ Anti-vibration</td>
<td>-40°C~70°C/ Anti-vibration</td>
<td>-40°C~70°C/ Anti-vibration</td>
<td>-30°C~60°C/ Anti-vibration</td>
</tr>
</tbody>
</table>
Key Requirements

- Compliance with mandatory rolling stock regulations
- Safety of passengers and vehicles with active alerts and continuous surveillance
- Public address system and multi-way intercom between driver and in and out passengers
- Face recognition to identify suspects from central police station
- Ticketing system, terrestrial trunked radio (TETRA) and passenger information displays
- Uninterrupted Wi-Fi service and WWAN connection
- Roaming charges on international journeys
- Powerful computing enables real-time face recognition on every carriage from a remote location
- Built-in communication ports to connect devices such as ticketing system, terrestrial trunked radio (TETRA), train signage, card readers, safety sensors and IP cameras
- Mobile router supporting different internet service providers (ISP) with multiple Wi-Fi and cellular networks to provide uninterrupted internet onboard
- Better signal in remote areas and no roaming charges on international journeys with multi-SIM design and carrier switch

NEXCOM’s Solutions

- EN50155 certification for railway applications
- Models with DC-DC power isolation to fully fit each system requirement
- PC-based invehicle NVRs for real-time surveillance with live-view, recording, and playback features
- Intercom for drivers to alert or attend in and out passengers, as well as directly connect with remote operators
- Efforts to meet the needs of various applications
- Powerful performance with fanless design in aboard computers
- Multiple power and communication options
- Built-in communication ports for train signage and card readers
- Fully isolated PC-based devices for safety and reliability
**Public Works -**

Playing the Key Role of Enriching the Community & Enhancing the Quality of Life

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**Key Requirements**

- Power and cost efficiency
- Wireless communication to bring IoT into reality
- Rich I/O interface to connect with a variety of sensors
- Robust design for outdoor in-vehicle computing applications
- Compact size to fit in cabins with limited space
- Precise and real-time location of the vehicle
- High endurance in harsh weather conditions
- Uninterrupted power for system stability
- Easy for wiring installation and maintenance
- IP65 rating to improve the machine reliability under a harsh environment

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**NEXCOM’s Solutions**

- The most diverse line of vehicle computers powered by Intel® processors for fast and strenuous work
- GNSS tracking and WLAN/WWAN communication with multi-SIM capabilities
- Built-in communication ports such as USB/COM/GPIO/CAN bus/mini-PCIe to connect peripherals and acquire relevant data
- Rugged design compact size and IP65/67 protection for reliable operation in extreme and outdoor environments
- Extended operating temperature range from -40°C to 70°C
- Optional backup battery ensures constant operation regardless of unstable power supply to support continuous operational and management improvements
- UltraONE+ technology supports 10-meter video transmission over a single cable

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**Model**

<table>
<thead>
<tr>
<th>Model</th>
<th>VMC 1100</th>
<th>VMC 2020</th>
<th>VTC 1911-IPK</th>
<th>MVS 2630-IPK</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Intel Atom® Bay Trail (E3825)</td>
<td>Intel Atom® Bay Trail (E3815)</td>
<td>Intel Atom® Apollo Lake (E3950)</td>
<td>Intel Atom® Apollo Lake (E3950)</td>
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<td>IP65</td>
<td>IP67</td>
<td>IP65</td>
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<tr>
<td>Communication</td>
<td>1 x WWAN, 1 x WLAN</td>
<td>1 x WWAN, 1 x WLAN</td>
<td>2 x WWAN, 1 x WLAN</td>
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<tr>
<td>Serial/CAN Bus</td>
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<td>3/1</td>
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<td>-20°C to 60°C</td>
<td>-40°C to 70°C</td>
<td>-40°C to 70°C</td>
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<td>-20°C to 60°C</td>
<td>-20°C to 60°C</td>
<td>-40°C to 70°C</td>
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<td>Harsh Environment</td>
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<td>-40°C to 70°C</td>
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<td>3/1</td>
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<tr>
<td>Harsh Environment</td>
<td>-20°C to 60°C</td>
<td>-20°C to 60°C</td>
<td>-40°C to 70°C</td>
<td>-40°C to 70°C</td>
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</tbody>
</table>
First Response Vehicles -
Leak-Free Crime Recognition and Trusted Emergency Service All Day Long

Key Requirements
- Ability to aggregate video feeds from multiple IP cameras
- High graphic performance for sophisticated image processing (facial recognition, ANPR)
- Real-time surveillance on multiple video displays
- Easy system installation to fit in vehicles with limited space
- Real-time vehicle status monitoring
- Prompt emergency-mission dispatching with the most optimal route for the destination
- Quick and trusted communication with emergency and control center
- Uninterrupted power supply to systems
- Display and system integration for large trucks with simplified cabling
- All-in-one PoE design to lower total cost of ownership (TCO) and facilitate maintenance
- High-speed storage is possible for high-speed multi-CAM

NEXCOM’s Solutions
- 360-degree view from up to 8 IP cameras over PoE ports
- Fast automatic license plate recognition (ALPR) and face detection powered by Intel® Coffee-lake S, Refresh, Xeon®/i7 high performance processor and NVIDIA GeForce® RTX2080Ti/GTX 1050Ti/1080 graphics card
- UltraONE+ technology to solve the cabling issue and video signal degradation in harsh vehicle operating environments over a single cable
- CAN bus 2.0B to read the vehicle status accurately and quickly
- Vehicle mount computer to show the job assignments and route map
- Support multiple telecom carriers (3G and LTE) to guarantee the communication and data transmission between the vehicle and control center
- Backup battery ensures uninterrupted system operation
- Supporting IEEE 802.3 af/at PoE for IP cameras and other PD devices
**Key Requirements**

- Sunlight readable display
- Precise and real-time location of the vehicle
- Real-time vehicle status monitoring
- Reliable operation in extreme weather conditions
- Diverse OS support
- Easy connection to peripherals in warehouse

- Compact size to fit in space-limited cabins in gantry-crane and forklifts of all sizes
- Non-stop working operation regardless vehicle’s battery level
- Proximity sensing to ensure safe operation
- Uninterrupted power supply for stable system performance

**NEXCOM’S Solutions**

- High-brightness LCD touchscreen panel with low reflection
- Global navigation satellite system (GPS/GLonass/Galileo/Beidou) and WWAN connections for accurate positioning of the vehicle
- Check the vehicle status accurately and interface with vehicle’s subsystems with CAN bus 2.0B (ISO 11898-2), OBD II (ISO 15765-4), and SAE J1708/J1939
- Complete product line to meet customer various requests
- Wide-range power input (9V~60V) to fit different vehicles’ UPS batteries
- Built-in backup battery

- Aluminum die casting housing and touch-heater to alleviate the huge fluctuation of temperature and humidity
- Powerful USB and COM for connected peripherals
- Optional backup battery ensures that data critical to operational and management improvements is stored and streamed to the cloud despite unstable power supply
- Built-in communication ports such as USB/COM/DIO to connect analog or IP cameras and other peripherals
Vertical Industry Applications

Fleet Management -
Improving Driver Safety, Save Energy, and Increase Overall Fleet Efficiency

Key Requirements
- Power and cost effective
- Real-time vehicle status monitoring
- Plan routes more correctly and real-time location of the vehicle
- Rich I/O interface to connect with a variety of sensors
- Suitable for harsh environments
- Uninterrupted power supply for stable system operation
- 360-degree situational awareness to enhance driving safety
- Roaming charges on international journeys

NEXCOM’s Solutions
- Powered by Intel® processors for fast and strenuous work
- VGA/HDMI/ultraONE+ various display support
- GPS and WLAN/WWAN module support for tracking and communication
- Built-in communication ports such as USB/COM/PCI/PCle to connect peripherals and acquire vehicle data
- Rugged design and IP65 protection for reliable operation in extreme and outdoor environments
- Alternative power source with optional backup battery to ensure uninterrupted data storage and transmission regardless of unstable vehicle power
- Powerful CVBS design for blind spot monitoring and collision avoidance
- SIM card switch for better signal and no roaming charges on international journeys

<table>
<thead>
<tr>
<th>Model</th>
<th>VTC 1910</th>
<th>VTC 1911-IPK</th>
<th>VMC 1100</th>
<th>VMC 2020</th>
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</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Intel Atom® Bay Trail (E3815)</td>
<td>Intel Atom® Bay Trail (E3815)</td>
<td>Intel Atom® Bay Trail (E3825)</td>
<td>Intel Atom® Apollo Lake (E3950)</td>
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<td>1/2 (BOC optional)</td>
<td>1/2 (BOC optional)</td>
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</tbody>
</table>

- VMD 1001 8” SVGA Vehicle Mount Display
- IP Camera
- Seat Belt Sensor
- iButton Reader
- RFID Reader
- Printer
- Vehicle Speed Sensor
- CAN
- GPS Antenna
- Reed Switch
- OBDII TPMS Receiver
- Fuel Level Sensor
- Thermal Sensor
- Engine Speed Sensor
- VTC 1910 Fanless In-Vehicle Computer
- Fatigue System

- VMD 3011 10.4” In-Vehicle Mount Display
- VTC 1911-IPK Telematics IoT Gateway
- VMC 2020 8” All-in-One Mobile Terminal
- VTC 1910
- VTC 1911-IPK
- VMC 1100
- VMC 2020

- VMD 1001
- VMD 3011
Raw Material Management -
Born Tough to Increase Efficiency and Productivity

Key Requirements

- Power and cost effective
- Sunlight readable display
- Precise and real-time location of the vehicle
- Water and dust protection for harsh environments
- Easy connection to peripherals

NEXCOM’s Solutions

- Powered by Intel® processors for fast and strenuous work
- High-brightness LCD touchscreen panel with low reflection
- Global navigation satellite system (GPS/Glonass/Galileo/BeiDou) for accurate positioning of the vehicle
- Rugged design and IP65 protection for reliable operation in extreme and outdoor environments
- Built-in communication ports such as USB/COM/WiFi/CAN bus/mini-PCIe to connect peripherals and acquire vehicle data
Video Surveillance -
To See, to Analyze, to Real-Time React for Mobile Security

Key Requirements
- Clear images, detail information and solid quality
- High capability for compute-intensive analysis
- Rugged vehicle display to show captured images or video analytics results in real time
- Wireless communication with high bandwidth for video transmission
- Rugged and sufficient storage capacity

NEXCOM’s Solutions
- Connections to high resolution IP cameras with PoE to capture clear images
- In-vehicle computer with GPU acceleration for video analysis of multiple video sources
- Industrial-grade vehicle display for seamless video output
- Support multiple WWAN networks with multiple SIMs for reliable video transmission and remote monitoring

<table>
<thead>
<tr>
<th>Model</th>
<th>VTC6222-C4S</th>
<th>VTC7250-TCL</th>
<th>VTC7251-TCL</th>
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<td>Apollo Lake</td>
<td>i7-8700T</td>
<td>i7-8700T</td>
<td>i7-6600U</td>
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<td>Storage</td>
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<td>2 x 2.5&quot; SSD</td>
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<td>1 x SSD</td>
<td>1 x mSATA</td>
<td>1 x SSD</td>
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<tr>
<td>WWAN</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4</td>
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</tbody>
</table>

Model VTC6222-C4S
- CPU: Intel Atom Apollo Lake E3950
- Storage: 2 x 2.5" SSD (15mm) 1 x SSD 1 x USB3.0
- PoE: 8 x PoE
- WWAN: 3/4 (BOM optional)

Model VTC7250-TCL
- CPU: Intel Core i7-8700T
- Storage: 2 x 2.5" SSD (15mm) 2 x mSATA
- PoE: 8 x PoE
- WWAN: 3/4 (BOM optional)

Model VTC7251-TCL
- CPU: Intel Core i7-8700T
- Storage: 2 x 2.5" SSD (15mm) 2 x mSATA
- PoE: 6 x PoE
- WWAN: 3/4 (BOM optional)

Model VTC6251-C4S
- CPU: Intel Core i7-6600U
- Storage: 2 x 2.5" SSD (9.5mm) 1 x mSATA
- PoE: 6 x PoE
- WWAN: 3/4 (BOM optional)
Product Selection Guide

VTC/MVS/ATC System

<table>
<thead>
<tr>
<th>CPU</th>
<th>COM</th>
<th>CAN Bus</th>
<th>Video Output</th>
<th>M.2</th>
<th>mini-PCIe</th>
<th>IP57</th>
<th>IP65</th>
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Railway Computer

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Vehicle Mount Computer

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<th>CPU</th>
<th>Touch Screen</th>
<th>COM</th>
<th>IP Protection</th>
<th>Model</th>
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* Selectable

1: Optional attachable power isolation kit
2: Optional module available
3: Optional accessory
4: Incompatible
5: Selectable

Vehicle Mount Computer

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<thead>
<tr>
<th>LCD Screen</th>
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Vehicle Mount Computer

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<th>Audio</th>
<th>USB</th>
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<th>Ignition Control</th>
<th>Power Management</th>
<th>Certifications</th>
<th>OSD</th>
<th>Mounting Dimensions (mm)</th>
<th>Operating Temperature</th>
<th>Weight (kg)</th>
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<td>10/100/1000</td>
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<td>1 x power indicator</td>
<td>Low-voltage protection</td>
<td>299 x 297 x 74</td>
<td>Yes</td>
<td>Low-voltage protection &amp; power off delay time</td>
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## Industrial AI Edge Telematics Computer

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<th>Video Out</th>
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<th>PoE</th>
<th>USB</th>
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<th>SIM Socket</th>
<th>Management</th>
<th>OS</th>
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<tbody>
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<td>Intel Core i3-8100T</td>
<td>Intel Q370</td>
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<td>NVIDIA MXM</td>
<td>2 x M.2 PCIe x16</td>
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<td>ATC 1080-7A</td>
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<td>ATC 1080-7DF</td>
<td>1 x (USB 3.0)</td>
<td>4 x (DI/DO)</td>
<td>Intel Core i3-8100T</td>
<td>Win 10, Linux (Kernel 4.x)</td>
<td>260 x 235 x 97.6</td>
<td>30°C to 60°C</td>
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**Product Selection Tables**

<table>
<thead>
<tr>
<th>Product</th>
<th>CPU</th>
<th>Chipset</th>
<th>Fan/Fineness</th>
<th>Memory</th>
<th>GPU</th>
<th>Video Out</th>
<th>Ethernet</th>
<th>PoE</th>
<th>USB</th>
<th>GPIO</th>
<th>Power</th>
<th>SIM Socket</th>
<th>Management</th>
<th>OS</th>
<th>Dimensions (mm)</th>
<th>Operating Temperature</th>
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<tbody>
<tr>
<td>MVS 2623-CC4T</td>
<td>Intel Atom x5-Z8500</td>
<td>Intel C246</td>
<td>Fan (fan-kit pre-installed)</td>
<td>2 x DDR4 2666 SO-DIMM, 4GB</td>
<td>NVIDIA MXM</td>
<td>2 x M.2 PCIe x16</td>
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<td>MVS 2623-CC4T</td>
<td>1 x (USB 3.0)</td>
<td>4 x (DI/DO)</td>
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<td>Win 10, Linux (Kernel 4.x)</td>
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<th>Dimensions (mm)</th>
<th>Operating Temperature</th>
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<tbody>
<tr>
<td>aROK 3510</td>
<td>Intel Core i3-8100T</td>
<td>Intel C246</td>
<td>Fan (fan-kit pre-installed)</td>
<td>2 x DDR4 2666 SO-DIMM, 4GB</td>
<td>NVIDIA MXM</td>
<td>2 x M.2 PCIe x16</td>
<td>Intel Core i3-8100T</td>
<td>aROK 3510</td>
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<th>GPIO</th>
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<th>Management</th>
<th>OS</th>
<th>Dimensions (mm)</th>
<th>Operating Temperature</th>
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<tbody>
<tr>
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<td>Intel Core i5-8400T</td>
<td>Intel C246</td>
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<td>2 x M.2 PCIe x16</td>
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<td>ATC 8110</td>
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<td>4 x (DI/DO)</td>
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<th>Management</th>
<th>OS</th>
<th>Dimensions (mm)</th>
<th>Operating Temperature</th>
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<tr>
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<td>2 x M.2 PCIe x16</td>
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<td>ATC 3210/3210</td>
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<td>4 x (DI/DO)</td>
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<td>260 x 235 x 97.6</td>
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<th>GPU</th>
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<th>PoE</th>
<th>USB</th>
<th>GPIO</th>
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<th>Management</th>
<th>OS</th>
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<th>Operating Temperature</th>
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### Vehicle Telematics Computer

<table>
<thead>
<tr>
<th>Model</th>
<th>VTC 1010-E</th>
<th>VTC 1011-JPK</th>
<th>VTC 1011-CJK</th>
<th>VTC 1011-C2VK</th>
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<tr>
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<td>Intel Atom® E3950</td>
<td>Intel Atom® E3950</td>
<td>Intel Atom® E3950</td>
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<td>Chipset</td>
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<td>2GB DDR3L 1333 SO-DIMM (default) up to 8GB</td>
<td>2GB DDR3L 1333 SO-DIMM (default) up to 8GB</td>
<td>2GB DDR3L 1333 SO-DIMM (default) up to 8GB</td>
<td>2GB DDR3L 1333 SO-DIMM (default) up to 8GB</td>
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<td>Storage</td>
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<td>1 x SATA 2.0 mSATA</td>
<td>1 x SATA 2.0 mSATA</td>
<td>1 x SATA 2.0 mSATA</td>
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<td>Second Storage</td>
<td>1 x SATA DOM</td>
<td>1 x SATA DOM</td>
<td>1 x mSATA</td>
<td>1 x mSATA</td>
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<td>Video Out</td>
<td>VGA</td>
<td>VGA</td>
<td>VGA</td>
<td>VGA or u-bloxNE+</td>
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<tr>
<td>Audio</td>
<td>1 x Mic-in, 1 x Line-out</td>
<td>1 x Mic-in, 1 x Line-out</td>
<td>1 x Mic-in, 1 x Line-out</td>
<td>1 x Mic-in, 1 x Line-out</td>
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<tr>
<td>Ethernet</td>
<td>1 x Intel® 10/100/1000</td>
<td>2 x Intel® 10/100/1000</td>
<td>2 x Intel® 10/100/1000</td>
<td>2 x Intel® 10/100/1000</td>
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<td>PoE</td>
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<td>N/A</td>
<td>N/A</td>
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<td>CAN/USB</td>
<td>CAN Bus 2.0B onboard, Optional OBD SAE J1939</td>
<td>CAN Bus 2.0B onboard, Optional OBD SAE J1939</td>
<td>CAN Bus 2.0B onboard, Optional OBD SAE J1939</td>
<td>CAN Bus 2.0B onboard, Optional OBD SAE J1939</td>
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<td>DC Output</td>
<td>12V (USB)</td>
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<td>12V (USB)</td>
<td>12V (USB)</td>
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<td>SpiBus</td>
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<td>N/A</td>
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<td>Optional</td>
<td>Wi-Fi/Bluetooth/WiVAN</td>
<td>Wi-Fi/Bluetooth/WiVAN</td>
<td>Wi-Fi/Bluetooth/WiVAN</td>
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<tr>
<td>Communication</td>
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<tr>
<td>mini-PCIe Socket</td>
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<td>1 x PCIe 2.0 mSATA (auto-detection)</td>
<td>1 x PCIe 2.0 mSATA (auto-detection)</td>
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<td>M.2</td>
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<td>WiVAN</td>
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<tr>
<td>GPS</td>
<td>Onboard ublox NEO-MIN</td>
<td>VIOB-GPS2 module (usb) NOE-MIN</td>
<td>VIOB-GPS2 module (usb) NOE-MIN</td>
<td>VIOB-GPS2 module (usb) NOE-MIN</td>
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<td>Power Input</td>
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<td>DC 9V to 36V</td>
<td>DC 9V to 36V</td>
<td>DC 9V to 36V</td>
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<tr>
<td>Ignition Control</td>
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<td>Yes, w/ level delay time setting</td>
<td>Yes, w/ level delay time setting</td>
<td>Yes, w/ level delay time setting</td>
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<tr>
<td>Power Management</td>
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<td>Low voltage protection &amp; configuration via software</td>
<td>Low voltage protection &amp; configuration via software</td>
<td>Low voltage protection &amp; configuration via software</td>
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<tr>
<td>Back up Battery</td>
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<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Ingress Protection</td>
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<td>Operating Temperature</td>
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<td>-40°C to 70°C</td>
<td>-40°C to 70°C</td>
<td>-40°C to 70°C</td>
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</tbody>
</table>

**Vehicle Telematics Computer**

- **Model**: VTC 1010-E, VTC 1011-JPK, VTC 1011-CJK, VTC 1011-C2VK
- **CPU**: Intel Atom® E3950
- **Chipset**: N/A
- **Memory**: 2GB DDR3L 1333 SO-DIMM (default) up to 8GB
- **Storage**: 1 x SATA 2.0 mSATA
- **Second Storage**: 1 x SATA DOM
- **Video Out**: VGA
- **Audio**: 1 x Mic-in, 1 x Line-out
- **Ethernet**: 1 x Intel® 10/100/1000
- **Power Input**: Onboard u-blox NEO-M8N
- **WWAN**: SIM Socket: 2
- **Communication**: Wi-Fi/Bluetooth/WiVAN
- **Optional**: Wi-Fi/Bluetooth/WiVAN
- **mini-PCIe Socket**: 1 x PCIe 2.0 mSATA (auto-detection)
- **M.2**: N/A
- **SIM Socket**: 2
- **WiVAN**: 1
- **GPS**: Onboard ublox NEO-MIN
- **Power Input**: DC 9V to 36V
- **Ignition Control**: Yes, w/ level delay time setting
- **Power Management**: Low voltage protection & configuration via software
- **Back up Battery**: N/A
- **Ingress Protection**: N/A
- **Certification**: CE, FCC Class A, E13
- **OS**: Win 10, Win 10, Win 10, Windows 7, Linux (kernel 4.4)
- **Dimensions (mm)**: 130 x 120 x 35
- **Operating Temperature**: -40°C to 70°C

**Vehicle Telematics Computer**

- **Model**: VTC 1020, VTC 1030-PK, VTC 1010, VTC 1031-BK, VTC 1031-CJK
- **CPU**: Intel Atom® E3950
- **Chipset**: N/A
- **Memory**: 2GB DDR3L 1333 SO-DIMM (default) up to 8GB
- **Storage**: 1 x mSATA
- **Second Storage**: 1 x SD (external accessible)
- **Video Out**: VGA, HDMI
- **Audio**: 1 x Mic-in, 1 x Line-out
- **Ethernet**: 1 x Intel® 10/100/1000
- **Power Input**: Onboard u-blox NEO-M8N
- **WWAN**: 2 x Intel® 10/100/1000
- **Communication**: Wi-Fi/Bluetooth/WiVAN
- **Optional**: Wi-Fi/Bluetooth/WiVAN
- **mini-PCIe Socket**: 1 x PCIe 2.0 mSATA (auto-detection)
- **M.2**: N/A
- **SIM Socket**: 2
- **WiVAN**: 1
- **GPS**: Onboard ublox NEO-MIN
- **Power Input**: DC 9V to 36V
- **Ignition Control**: Yes, w/ level delay time setting
- **Power Management**: Low voltage protection & configuration via software
- **Back up Battery**: N/A
- **Ingress Protection**: N/A
- **Certification**: CE, FCC Class A, E13
- **OS**: Win 10, Win 10, Win 10, Windows 7, Linux (kernel 4.4)
- **Dimensions (mm)**: 130 x 120 x 35
- **Operating Temperature**: -40°C to 70°C

**Vehicle Telematics Computer**

- **Model**: VTC 1020, VTC 1030-PK, VTC 1010, VTC 1031-BK, VTC 1031-CJK
- **CPU**: Intel Atom® E3950
- **Chipset**: N/A
- **Memory**: 2GB DDR3L 1333 SO-DIMM (default) up to 8GB
- **Storage**: 1 x mSATA
- **Second Storage**: 1 x SD (external accessible)
- **Video Out**: VGA, HDMI
- **Audio**: 1 x Mic-in, 1 x Line-out
- **Ethernet**: 1 x Intel® 10/100/1000
- **Power Input**: Onboard u-blox NEO-M8N
- **WWAN**: 2 x Intel® 10/100/1000
- **Communication**: Wi-Fi/Bluetooth/WiVAN
- **Optional**: Wi-Fi/Bluetooth/WiVAN
- **mini-PCIe Socket**: 1 x PCIe 2.0 mSATA (auto-detection)
- **M.2**: N/A
- **SIM Socket**: 2
- **WiVAN**: 1
- **GPS**: Onboard ublox NEO-MIN
- **Power Input**: DC 9V to 36V
- **Ignition Control**: Yes, w/ level delay time setting
- **Power Management**: Low voltage protection & configuration via software
- **Back up Battery**: N/A
- **Ingress Protection**: N/A
- **Certification**: CE, FCC Class A, E13
- **OS**: Win 10, Win 10, Win 10, Windows 7, Linux (kernel 4.4)
- **Dimensions (mm)**: 130 x 120 x 35
- **Operating Temperature**: -40°C to 70°C
## Vehicle Telematics Computer

<table>
<thead>
<tr>
<th>Model</th>
<th>VTC 6210-BK</th>
<th>VTC 6210-VRB</th>
<th>VTC 6220-BK</th>
<th>VTC 6222</th>
<th>VTC 6222-CA5</th>
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<tbody>
<tr>
<td><strong>CPU</strong></td>
<td>Intel® Atom™ x5-E8500</td>
<td>Intel® Atom™ x5-E8500</td>
<td>Intel® Atom™ x5-E8500</td>
<td>Intel® Atom™ E3-1230v5</td>
<td>Intel® Atom™ E3-1230v5</td>
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<td><strong>Chipset</strong></td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td><strong>Memory</strong></td>
<td>2GB DDR3L, 1333 SO-DIMM (default) to 8GB DDR3L, 1667 SO-DIMM (default) to 8GB</td>
<td>2GB DDR3L, 1333 SO-DIMM (default) to 8GB DDR3L, 1667 SO-DIMM (default) to 8GB</td>
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<td>4GB DDR4, 1866 SO-DIMM (default) to 8GB DDR4, 1866 SO-DIMM (default) to 8GB</td>
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<tr>
<td><strong>Storage</strong></td>
<td>1 x 2.5&quot; SATA 2.5&quot; SSD (removable, 9.5mm)</td>
<td>1 x 2.5&quot; SATA 2.5&quot; SSD (removable, 9.5mm)</td>
<td>1 x 2.5&quot; SATA 3.0&quot; SSD (removable, 9.5mm)</td>
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<td>1 x 2.5&quot; SATA 3.0&quot; SSD (removable, 9.5mm)</td>
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<td>M.2</td>
<td>M.2</td>
<td>M.2</td>
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<td>2 x MIC in, 2 Line-Out</td>
<td>2 x MIC in, 2 Line-Out</td>
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<td>1 x MIC in, 2 Line-Out</td>
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<td><strong>Ethernet</strong></td>
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<td>2 x Intel® i210/1000</td>
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<td>1 x USB 3.0, 2 x USB 2.0</td>
<td>1 x USB 3.0, 2 x USB 2.0</td>
<td>1 x USB 3.0, 2 x USB 2.0</td>
<td>1 x USB 3.0, 2 x USB 2.0</td>
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<tr>
<td><strong>COM</strong></td>
<td>2 x RS232, 1 x RS422/485</td>
<td>2 x RS232, 1 x RS422/485</td>
<td>2 x RS232, 1 x RS422/485</td>
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<td>4 x GPIO Out</td>
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<td>4 x GPIO Out</td>
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<td>8 x Programmable PC/PCI-GPIO (BIOS selection)</td>
<td>8 x Programmable PC/PCI-GPIO (BIOS selection)</td>
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<td><strong>DC Output</strong></td>
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<td>12V (2A)</td>
<td>12V (2A)</td>
<td>12V (2A)</td>
<td>12V (2A)</td>
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<td>Win/Android/WiFi/VLAN</td>
</tr>
<tr>
<td><strong>micro-PCIE Socket</strong></td>
<td>2 x PCIe (x1, PCIe 2.0), 1 x PCIe (x2)</td>
<td>2 x PCIe (x1, PCIe 2.0), 1 x PCIe (x2)</td>
<td>2 x PCIe (x1, PCIe 2.0), 1 x PCIe (x2)</td>
<td>2 x PCIe (x1, PCIe 2.0), 1 x PCIe (x2)</td>
<td>2 x PCIe (x1, PCIe 2.0), 1 x PCIe (x2)</td>
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<tr>
<td><strong>M.2</strong></td>
<td>1 x M.2 Key B (USB 2.0 + 1.8G SSD)</td>
<td>1 x M.2 Key B (USB 2.0 + 1.8G SSD)</td>
<td>1 x M.2 Key B (USB 2.0 + 1.8G SSD)</td>
<td>1 x M.2 Key B (USB 2.0 + 1.8G SSD)</td>
<td>1 x M.2 Key B (USB 2.0 + 1.8G SSD)</td>
</tr>
<tr>
<td><strong>SIM Socket</strong></td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
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<tr>
<td><strong>WWAN</strong></td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td><strong>GPS</strong></td>
<td>VOD-GPS-02 module (GPS + optional)</td>
<td>VOD-GPS-02 module (GPS + optional)</td>
<td>VOD-GPS-02 module (GPS + optional)</td>
<td>VOD-GPS-02 module (GPS + optional)</td>
<td>VOD-GPS-02 module (GPS + optional)</td>
</tr>
<tr>
<td><strong>Power Input</strong></td>
<td>DC 9V to 36V</td>
<td>DC 9V to 36V</td>
<td>DC 9V to 36V</td>
<td>DC 9V to 36V</td>
<td>DC 9V to 36V</td>
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<tr>
<td><strong>Ignition Control</strong></td>
<td>Yes, with break delay time setting</td>
<td>Yes, with break delay time setting</td>
<td>Yes, with break delay time setting</td>
<td>Yes, with break delay time setting</td>
<td>Yes, with break delay time setting</td>
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<tr>
<td><strong>Power Management</strong></td>
<td>Low voltage protection &amp; configuration via software</td>
<td>Low voltage protection &amp; configuration via software</td>
<td>Low voltage protection &amp; configuration via software</td>
<td>Low voltage protection &amp; configuration via software</td>
<td>Low voltage protection &amp; configuration via software</td>
</tr>
<tr>
<td><strong>Back Up Battery</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td><strong>Ingress Protection</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Dimensions (mm)</strong></td>
<td>260 x 176 x 50</td>
<td>260 x 176 x 50</td>
<td>260 x 176 x 50</td>
<td>260 x 176 x 50</td>
<td>260 x 176 x 50</td>
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<tr>
<td><strong>Operating Temperature</strong></td>
<td>-30°C to 70°C</td>
<td>-30°C to 70°C</td>
<td>-30°C to 70°C</td>
<td>-30°C to 70°C</td>
<td>-30°C to 70°C</td>
</tr>
</tbody>
</table>
## Railway Computer

| Model          | CPU                              | Memory                                       | Storage                                      | Second Storage | Video Out                  | Audio                          | USB                          | Ethernet                     | COM                        | GPIO                        | USB                          | SIM Socket              | Optional Communication   | Power Input                  | Ignition Control                  | Power Management                  | Certification                  | Dimensions (mm)                  | Operating Temperature  |
|----------------|----------------------------------|----------------------------------------------|----------------------------------------------|----------------|---------------------------|-------------------------------|-------------------------------|-----------------------------|----------------------------|------------------------------|-------------------------------|----------------------------|-----------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|
| nROK 1020-A    | Intel® Atom® x5-E3930            | 4GB DDR3L 1866 50 DIMM (default) up to BGB | 1 x 2.5" SATA 1.3 SSD (removable, 9.5mm)     | N/A            | 1 x VGA                    | 1 x Mic                        | 2 x 2.5A (default)              | 1 x internal SD (TX)        | 1 x 10/100/1000 (M12)     | 2 x Mini-USB 2.0                | 2 x Full RS232 (w/ isolation) | 5 x Programmable GPIO       | Wi-Fi/BT/WiMax/WiFi              | DC 24/54V (w/ isolation)     | Yes, w/ 4 level delay time setting | N/A                         | CE, FCC Class A,  EN50155     | 180 x 115 x 60                | -40°C to 70°C (TX)          |
| nROK 6210-R    | Intel® Atom™ x7-E3950            | 4GB DDR3L 1866 50 DIMM (default) up to BGB | 1 x 2.5" SATA 2.0 SSD (removable, 15mm)     | N/A            | 2 x VGA                    | 1 x Mic                        | 2 x 2.5A (default)              | 1 x internal SD (TX)        | 1 x 10/100/1000 (M12)     | 2 x Mini-USB 2.0                | 2 x Full RS232 (w/ isolation) | 5 x Programmable GPIO       | Wi-Fi/BT/WiMax/WiFi              | DC 24/54V (w/ isolation)     | Yes, w/ 4 level delay time setting | N/A                         | CE, FCC Class A,  EN50155     | 180 x 115 x 60                | -40°C to 70°C (TX)          |
| nROK 6221      | Intel® Atom™ x7-E3950            | 4GB DDR3L 1866 50 DIMM (default) up to BGB | 1 x 2.5" SATA 2.0 SSD (removable, 15mm)     | N/A            | 1 x VGA                    | 1 x Mic                        | 2 x 2.5A (default)              | 1 x internal SD (TX)        | 1 x 10/100/1000 (M12)     | 2 x Full RS232 (w/ isolation) | 1 x Full RS232/422/485 (w/ isolation) | 5 x Programmable GPIO       | Wi-Fi/BT/WiMax/WiFi              | DC 24/54V (w/ isolation)     | Yes, w/ 4 level delay time setting | N/A                         | CE, FCC Class A,  EN50155     | 180 x 115 x 60                | -40°C to 70°C (TX)          |
| nROK 6221-IP   | Intel® Atom™ x7-E3950            | 4GB DDR3L 1866 50 DIMM (default) up to BGB | 1 x 2.5" SATA 2.0 SSD (removable, 15mm)     | N/A            | 2 x VGA                    | 2 x R/L (M12)                  | 2 x USB 3.0                    | 1 x internal SD (TX)        | 1 x 10/100/1000 (M12)     | 1 x Full RS232/422/485 (w/ isolation) | 1 x Full RS232/422/485 (w/ isolation) | 5 x Programmable GPIO       | Wi-Fi/BT/WiMax/WiFi              | DC 24/54V (w/ isolation)     | Yes, w/ 4 level delay time setting | N/A                         | CE, FCC Class A,  EN50155     | 180 x 115 x 60                | -40°C to 70°C (TX)          |
## Modular Vehicle Computer System

<table>
<thead>
<tr>
<th>Model</th>
<th>CPU</th>
<th>Chipset</th>
<th>Memory</th>
<th>Storage</th>
<th>Second Storage</th>
<th>Video Out</th>
<th>Audio</th>
<th>Ethernet</th>
<th>USB</th>
<th>COM</th>
<th>GPIO</th>
<th>CAN/OBD</th>
<th>DC Output</th>
<th>SWiN</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVS 1620-IPK</td>
<td>Intel® Atom™ x6135SL 4C, 2.0GHz</td>
<td>N/A</td>
<td>1 x DDR5L 1600 (SO-DIMM, 4GB) (default) up to 8GB</td>
<td>1 x 3.5” SATA 3.0 SSD/HDD (removable, 9.5mm)</td>
<td>1 x Card (external accessible)</td>
<td>1 x VGA</td>
<td>1 x Mic-in, 2 x Line-out</td>
<td>2 x 10/100/1000</td>
<td>3 x USB 2.0</td>
<td>2 x RS232, 1 x RS485</td>
<td>8 Programmable I/O</td>
<td>3 x CAN Bus 2.0 onboard. Optional OBD SA:[J1978/1970] module</td>
<td>12V (2A)</td>
<td>N/A</td>
</tr>
<tr>
<td>MVS 2623-CEMK</td>
<td>Intel® Atom™ x6355S 4C, 2.0GHz</td>
<td>N/A</td>
<td>1 x DDR5L 1600 (SO-DIMM, 4GB) (default) up to 8GB</td>
<td>1 x 3.5” SATA 3.0 SSD/HDD (removable, 9.5mm)</td>
<td>1 x Card (external accessible)</td>
<td>1 x VGA</td>
<td>1 x Mic-in, 2 x Line-out</td>
<td>2 x 10/100/1000</td>
<td>2 x USB 3.0</td>
<td>2 x RS232, 1 x RS485</td>
<td>8 Programmable I/O</td>
<td>3 x CAN Bus 2.0 onboard. Optional OBD SA:[J1978/1970] module</td>
<td>12V (2A)</td>
<td>N/A</td>
</tr>
<tr>
<td>MVS 2623-CBKL</td>
<td>Intel® Atom™ x6355S 4C, 2.0GHz</td>
<td>N/A</td>
<td>1 x DDR5L 1600 (SO-DIMM, 4GB) (default) up to 8GB</td>
<td>1 x 3.5” SATA 3.0 SSD/HDD (removable, 9.5mm)</td>
<td>1 x Card (external accessible)</td>
<td>1 x VGA</td>
<td>1 x Mic-in, 2 x Line-out</td>
<td>2 x 10/100/1000</td>
<td>2 x USB 3.0</td>
<td>2 x RS232, 1 x RS485</td>
<td>8 Programmable I/O</td>
<td>3 x CAN Bus 2.0 onboard. Optional OBD SA:[J1978/1970] module</td>
<td>12V (2A)</td>
<td>N/A</td>
</tr>
<tr>
<td>MVS 5600-3BU</td>
<td>Intel® Core™ i7-6600U</td>
<td>N/A</td>
<td>2 x DDR5L 1600 (SO-DIMM, 4GB) (default) up to 16GB</td>
<td>1 x 3.5” SATA 3.0 SSD/HDD (removable, 9.5mm)</td>
<td>1 x Card (external accessible)</td>
<td>1 x VGA</td>
<td>2 x Mic-in, 2 x Line-out</td>
<td>2 x 10/100/1000</td>
<td>2 x USB 3.0</td>
<td>2 x RS232, 1 x RS485</td>
<td>8 Programmable I/O</td>
<td>3 x CAN Bus 2.0 onboard. Optional OBD SA:[J1978/1970] module</td>
<td>12V (2A)</td>
<td>N/A</td>
</tr>
<tr>
<td>MVS 5600-7BU</td>
<td>Intel® Core™ i7-6600U</td>
<td>N/A</td>
<td>2 x DDR5L 1600 (SO-DIMM, 4GB) (default) up to 16GB</td>
<td>1 x 3.5” SATA 3.0 SSD/HDD (removable, 9.5mm)</td>
<td>1 x Card (external accessible)</td>
<td>1 x VGA</td>
<td>2 x Mic-in, 2 x Line-out</td>
<td>2 x 10/100/1000</td>
<td>2 x USB 3.0</td>
<td>2 x RS232, 1 x RS485</td>
<td>8 Programmable I/O</td>
<td>3 x CAN Bus 2.0 onboard. Optional OBD SA:[J1978/1970] module</td>
<td>12V (2A)</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### CPU
- **Model**: MVS 1620-IPK, MVS 2623-CEMK, MVS 2623-CBKL, MVS 5600-3BU, MVS 5600-7BU
- **Chipset**: N/A
- **Memory**: 1 x DDR5L 1600 (SO-DIMM, 4GB) (default) up to 8GB
- **Storage**: 1 x 3.5” SATA 3.0 SSD/HDD (removable, 9.5mm)
- **Second Storage**: 1 x Card (external accessible)
- **Video Out**: 1 x VGA
- **Audio**: 1 x Mic-in, 2 x Line-out
- **Ethernet**: 2 x 10/100/1000
- **USB**: 3 x USB 2.0, 1 x USB 2.0, 1 x USB 3.0
- **COM**: 2 x RS232, 1 x RS485
- **GPIO**: Isolation, 3 x DI, 3 x DO
- **DC Output**: 12V (2A)
- **SWiN**: N/A
- **Optional Communication**: Wi-Fi/BT/Bluetooth/WAN
- **mini-PCIe Socket**: 2 x PCIe 2.0 + USB 2.0, 1 x USB 2.0, 1 x USB 3.0
- **M.2**: 1 x M.2 Key B (USB 3.0)
- **SIM Socket**: N/A
- **GPS**: VOR-GPS-02 module (u-blox NEO-M8N)
- **Power Input**: DC 11V to 36V
- **Ignition Control**: No power management
- **Power Management**: Low voltage protection & configuration via software
- **Back Up Battery**: N/A
- **Ingress Protection**: IP65
- **Certification**: CE, FCC Class A, E13
- **OS**: Linux
- **Dimensions (mm)**: 260 x 198 x 50
- **Operating Temperature**: -40°C to 70°C

### DC/DC Converter
- **Model**: MVS 1620-IPK, MVS 2623-CEMK, MVS 2623-CBKL, MVS 5600-3BU, MVS 5600-7BU
- **Input**: 9 V to 36 V DC
- **Output**: 5 V DC ±5% (1A)
- **Protection**: Overvoltage, Overcurrent

### Power Management
- **Model**: MVS 1620-IPK, MVS 2623-CEMK, MVS 2623-CBKL, MVS 5600-3BU, MVS 5600-7BU
- **Protection**: Low voltage protection & configuration via software
- **Configuration via software**: Optional OBD

### Interface
- **Model**: MVS 1620-IPK, MVS 2623-CEMK, MVS 2623-CBKL, MVS 5600-3BU, MVS 5600-7BU
- **Port**: 1 x RJ45 10/100/1000 Fast Ethernet
- **Protocol**: TCP/IP, IPv4, IPv6

### Security
- **Model**: MVS 1620-IPK, MVS 2623-CEMK, MVS 2623-CBKL, MVS 5600-3BU, MVS 5600-7BU
- **Encryption**: AES-128, AES-256
- **Authentication**: 802.1X, EAP-PEAP, EAP-TTLS

### Network Management
- **Model**: MVS 1620-IPK, MVS 2623-CEMK, MVS 2623-CBKL, MVS 5600-3BU, MVS 5600-7BU
- **Protocol**: ICMP, ARP, RARP, DHCP, DNS, NTP
- **Monitoring**: CPU, Memory, Temperature

### Operating System
- **Model**: MVS 1620-IPK, MVS 2623-CEMK, MVS 2623-CBKL, MVS 5600-3BU, MVS 5600-7BU
- **OS**: Linux (Kernel 4.x)
- **Certification**: CE, FCC Class A, E13

### Dimensions
- **Model**: MVS 1620-IPK, MVS 2623-CEMK, MVS 2623-CBKL, MVS 5600-3BU, MVS 5600-7BU
- **Dimensions**: 260 x 198 x 50
- **Operating Temperature**: -40°C to 70°C

### Power Supply
- **Model**: MVS 1620-IPK, MVS 2623-CEMK, MVS 2623-CBKL, MVS 5600-3BU, MVS 5600-7BU
- **Input**: 24V DC
- **Output**: 5V ±5% (1A)
- **Protection**: Overvoltage, Overcurrent
<table>
<thead>
<tr>
<th>Model</th>
<th>CPU</th>
<th>Chipset</th>
<th>Memory</th>
<th>Storage</th>
<th>LED Size</th>
<th>Resolution</th>
<th>Brightness (Typ.)</th>
<th>Contrast Ratio</th>
<th>View Angle</th>
<th>Brightness Adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>VMC 110/111</td>
<td>Freescale i.MX Dual Lite</td>
<td>N/A</td>
<td>1 x DDR3L 1600/2100/2400, 2x8GB (default) up to 16GB</td>
<td>2 x Hard drive (SATA 1, 2.5&quot; SSD)</td>
<td>7” TFT LCD</td>
<td>1280 x 800</td>
<td>500/300 lum/m²</td>
<td>1000:1</td>
<td>V: 70/75 H: 70/75</td>
<td>Auto via light sensor</td>
</tr>
<tr>
<td>VMC 1100</td>
<td>Intel Atom® E3815</td>
<td>N/A</td>
<td>1 x DDR3L 1600/2100/2400, 2x8GB (default) up to 16GB</td>
<td>2 x Hard drive (SATA 1, 2.5&quot; SSD)</td>
<td>10.1” TFT LCD</td>
<td>1280 x 800</td>
<td>1000:1</td>
<td>1000:1</td>
<td>V: 85/85 H: 85/85</td>
<td>Projected capacitive, anti-glare</td>
</tr>
<tr>
<td>VMC 2020 PC1</td>
<td>Intel Atom® E3950</td>
<td>N/A</td>
<td>1 x DDR3L 1600/2100/2400, 2x8GB (default) up to 16GB</td>
<td>1 x SSD PCIe 2.0/SATA 3.0 (occupied mini PCIe slot)</td>
<td>10” TFT LCD</td>
<td>1280 x 800</td>
<td>1000:1</td>
<td>1000:1</td>
<td>V: 85/85 H: 85/85</td>
<td>Auto via light sensor</td>
</tr>
<tr>
<td>VMC 2020 PR1</td>
<td>Intel Atom® E3950</td>
<td>N/A</td>
<td>1 x DDR3L 1600/2100/2400, 2x8GB (default) up to 16GB</td>
<td>1 x SSD PCIe 2.0/SATA 3.0 (occupied mini PCIe slot)</td>
<td>10” TFT LCD</td>
<td>1280 x 800</td>
<td>1000:1</td>
<td>1000:1</td>
<td>V: 85/85 H: 85/85</td>
<td>Auto via light sensor</td>
</tr>
<tr>
<td>VMC 3020</td>
<td>Intel Atom® E3910</td>
<td>N/A</td>
<td>1 x DDR3L 1600/2100/2400, 2x8GB (default) up to 16GB</td>
<td>1 x SSD PCIe 2.0/SATA 3.0 (occupied mini PCIe slot)</td>
<td>10” TFT LCD</td>
<td>1280 x 800</td>
<td>1000:1</td>
<td>1000:1</td>
<td>V: 85/85 H: 85/85</td>
<td>Auto via light sensor</td>
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<tr>
<td>VMC 3021</td>
<td>Intel Atom® E3950</td>
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<td>1 x SSD PCIe 2.0/SATA 3.0 (occupied mini PCIe slot)</td>
<td>10” TFT LCD</td>
<td>1280 x 800</td>
<td>1000:1</td>
<td>1000:1</td>
<td>V: 85/85 H: 85/85</td>
<td>Auto via light sensor</td>
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<tr>
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<td>1 x SSD PCIe 2.0/SATA 3.0 (occupied mini PCIe slot)</td>
<td>10” TFT LCD</td>
<td>1280 x 800</td>
<td>1000:1</td>
<td>1000:1</td>
<td>V: 85/85 H: 85/85</td>
<td>Auto via light sensor</td>
</tr>
<tr>
<td>VMC 4020-411</td>
<td>Intel Atom® E3910</td>
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<td>1 x SSD PCIe 2.0/SATA 3.0 (occupied mini PCIe slot)</td>
<td>10” TFT LCD</td>
<td>1280 x 800</td>
<td>1000:1</td>
<td>1000:1</td>
<td>V: 85/85 H: 85/85</td>
<td>Auto via light sensor</td>
</tr>
</tbody>
</table>

**Audio**
- 1 x Mic-in, 1 x Line-out

**OS**
- 2 x Built-in speaker

**Speaker Management**
- 4-wire resistive, anti-glare

**Certification**
- CE, FCC Class B, E13
- VIOB-GPS-02 module (u-blox NEO-M8N)
- DC 9V to 36V
- CE, FCC Class B, E13
- Intel® Atom E3815
- CE, FCC Class B, E13
- Intel® Atom E3950
- CE, FCC Class B, E13
- Intel® Atom E3950
- CE, FCC Class B, E13
- Intel® Atom E3950
- CE, FCC Class B, E13
- Intel® Atom E3950

**Dimensions (mm)**
- 213 x 145 x 40
- 213 x 145 x 50
- 213 x 145 x 50
- 213 x 145 x 50

**Operating Temperature**
- -20°C to 70°C
- -20°C to 60°C
- -30°C to 60°C
- -30°C to 60°C
## Vehicle Mount Display

<table>
<thead>
<tr>
<th>Model</th>
<th>VMD 1000</th>
<th>VMD 1001</th>
<th>VMD 2000</th>
<th>VMD 2002</th>
<th>VMD 2003</th>
<th>VMD 3002</th>
<th>VMD 3110</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD Size</td>
<td>7” TFT LCD</td>
<td>7” TFT LCD</td>
<td>8” TFT LCD</td>
<td>8” TFT LCD</td>
<td>10.4” TFT LCD</td>
<td>10.4” TFT LCD</td>
<td>10.4” TFT LCD</td>
</tr>
<tr>
<td>Resolution</td>
<td>800 x 480</td>
<td>800 x 480</td>
<td>800 x 600</td>
<td>800 x 600</td>
<td>1024 x 768</td>
<td>1024 x 768</td>
<td>1024 x 768</td>
</tr>
<tr>
<td>Brightness (Typ.)</td>
<td>500cd/m²</td>
<td>500cd/m²</td>
<td>400cd/m²</td>
<td>500cd/m²</td>
<td>1000cd/m²</td>
<td>1200cd/m²</td>
<td>1200cd/m²</td>
</tr>
<tr>
<td>Contrast Ratio</td>
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<td>600:1</td>
<td>500:1</td>
<td>500:1</td>
<td>500:1</td>
<td>500:1</td>
<td>500:1</td>
</tr>
<tr>
<td>View Angle</td>
<td>V: 60/60 H: 70/70</td>
<td>V: 60/60 H: 70/70</td>
<td>V: 50/70 H: 70/70</td>
<td>V: 60/60 H: 70/70</td>
<td>V: 60/60 H: 70/70</td>
<td>V: 60/60 H: 70/70</td>
<td>V: 60/60 H: 70/70</td>
</tr>
<tr>
<td>Brightness Adjustment</td>
<td>Auto via light sensor</td>
<td>Auto via light sensor</td>
<td>Auto via light sensor</td>
<td>Auto via light sensor</td>
<td>Auto via light sensor</td>
<td>Auto via light sensor</td>
<td>Auto via light sensor</td>
</tr>
<tr>
<td>Touch Screen</td>
<td>4-wire resistive, anti-glare</td>
<td>4-wire resistive, anti-glare</td>
<td>4-wire resistive, anti-glare</td>
<td>4-wire resistive, anti-glare</td>
<td>Projected capacitive</td>
<td>Projected capacitive</td>
<td>Projected capacitive</td>
</tr>
<tr>
<td>Speaker</td>
<td>2 x Built-in speaker</td>
<td>2 x Built-in speaker</td>
<td>2 x Built-in speaker</td>
<td>2 x Built-in speaker</td>
<td>2 x Built-in speaker</td>
<td>2 x Built-in speaker</td>
<td>2 x Built-in speaker</td>
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<tr>
<td>Camera</td>
<td>N/A</td>
<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Control Button</td>
<td>1 x Monitor power button 2 x Brightness control 2 x Volume control</td>
<td>1 x Monitor power button 2 x Brightness control 2 x Volume control</td>
<td>1 x Monitor power button 2 x Brightness control 2 x Volume control</td>
<td>1 x Monitor power button 2 x Brightness control 2 x Volume control</td>
<td>1 x Auto Config</td>
<td>1 x Auto Config</td>
<td>1 x Auto Config</td>
</tr>
<tr>
<td>Video Input</td>
<td>Integrated LVDS CONN (LVDS, USB, 12V)</td>
<td>VGA</td>
<td>Integrated LVDS CONN (LVDS, USB, 12V)</td>
<td>Integrated LVDS CONN (LVDS, USB, 12V)</td>
<td>ultraONE+, 4 x CVBS</td>
<td>ultraONE+, 4 x CVBS</td>
<td>ultraONE+, 4 x CVBS</td>
</tr>
<tr>
<td>Audio</td>
<td>1 x Mic-in (lateral side) 1 x Mic-out (lateral side) 1 x Line-in (bottom side) 1 x Mic-out (bottom side)</td>
<td>1 x Line-out (lateral side)</td>
<td>1 x Line-out (lateral side) 1 x Mic-in (lateral side) 1 x Line-in (bottom side) 1 x Mic-out (bottom side)</td>
<td>1 x Line-out (lateral side) 1 x Mic-in (lateral side) 1 x Line-in (bottom side) 1 x Mic-out (bottom side)</td>
<td>1 x Line-out (lateral side) 1 x Mic-in (lateral side) 1 x Line-in (bottom side) 1 x Mic-out (bottom side)</td>
<td>1 x Line-out (lateral side) 1 x Mic-in (lateral side) 1 x Line-in (bottom side) 1 x Mic-out (bottom side)</td>
<td>1 x Line-out (lateral side) 1 x Mic-in (lateral side) 1 x Line-in (bottom side) 1 x Mic-out (bottom side)</td>
</tr>
<tr>
<td>USB</td>
<td>1 x USB 2.0</td>
<td>2 x USB 2.0</td>
<td>1 x USB 2.0</td>
<td>1 x USB 2.0</td>
<td>1 x USB 2.0</td>
<td>1 x USB 2.0</td>
<td>1 x USB 2.0</td>
</tr>
<tr>
<td>Remote Power Button</td>
<td>Remotely power on/off VTC, MVS &amp; ATC</td>
<td>N/A</td>
<td>Remotely power on/off VTC, MVS &amp; ATC</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Power Input</td>
<td>DC 12V (via LVDS)</td>
<td>DC 9V to 36V</td>
<td>DC 12V (via LVDS)</td>
<td>DC 9V to 36V</td>
<td>DC 9V to 36V</td>
<td>DC 9V to 36V</td>
<td>DC 9V to 36V</td>
</tr>
<tr>
<td>Ingress Protection</td>
<td>Front panel IP54</td>
<td>Front panel IP54</td>
<td>Front panel IP54</td>
<td>Front panel IP54</td>
<td>IP65</td>
<td>IP65</td>
<td>IP65</td>
</tr>
<tr>
<td>Mounting</td>
<td>VESA 75</td>
<td>VESA 75</td>
<td>VESA 75</td>
<td>VESA 75</td>
<td>VESA 75</td>
<td>VESA 75/100</td>
<td>VESA 75/100</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>182 x 138 x 36.3</td>
<td>182 x 138 x 36.3</td>
<td>207 x 173 x 36.7</td>
<td>207 x 173 x 36.7</td>
<td>256.5 x 202.1 x 31.5</td>
<td>256.5 x 202.1 x 31.5</td>
<td>256.5 x 202.1 x 31.5</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-20°C to 70°C</td>
<td>-20°C to 70°C</td>
<td>-20°C to 60°C</td>
<td>-20°C to 60°C</td>
<td>-20°C to 60°C</td>
<td>-20°C to 60°C</td>
<td>-20°C to 60°C</td>
</tr>
</tbody>
</table>
### Add-On Modules

#### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>AIBooster-X1</th>
<th>VIJOB-CAN-03</th>
<th>VIJOB-CAN-04-RAG</th>
<th>VIJOB-CAN-05</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Intel® Movidius™ MA 2485 x 1</td>
<td>CAN Bus 2.0B or OBD SAE J1939 module</td>
<td>Dual CAN Bus 2.0B module</td>
<td>SAE J1708 module</td>
</tr>
<tr>
<td><strong>Input I/F</strong></td>
<td>PCIe</td>
<td>UART</td>
<td>USB 2.0</td>
<td>USB 2.0</td>
</tr>
<tr>
<td><strong>Input Connector</strong></td>
<td>mini-PCIe socket</td>
<td>2 x 5-pin wafer</td>
<td>mini-PCIe socket</td>
<td>mini-PCIe socket or USB wafer</td>
</tr>
<tr>
<td><strong>Output I/F</strong></td>
<td>N/A</td>
<td>CAN Bus 2.0B or OBD SAE J1939</td>
<td>CAN Bus 2.0B</td>
<td>SAE J1708/J1587/J1922</td>
</tr>
<tr>
<td><strong>Output Connector</strong></td>
<td>N/A</td>
<td>2 x 5-pin wafer</td>
<td>6-pin wafer to DB9</td>
<td>3-pin wafer to DB9</td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>Full-size mini PCIe</td>
<td>Proprietary</td>
<td>Full-size mini PCIe</td>
<td>Full-size mini PCIe</td>
</tr>
<tr>
<td><strong>Dimensions (mm)</strong></td>
<td>51 x 30</td>
<td>50 x 28</td>
<td>51 x 30</td>
<td>51 x 30</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-30°C to 70°C</td>
<td>-40°C to 85°C</td>
<td>-40°C to 85°C</td>
<td>-40°C to 85°C</td>
</tr>
<tr>
<td><strong>Remark</strong></td>
<td>Intel® Movidius™ VPU AI module</td>
<td>* CAN Bus 2.0B &amp; SAE J1939 selection by switch</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>VIJOB-GPS-DR03</th>
<th>VIJOB-LTE-AD</th>
<th>VIJOB-AEM-01</th>
<th>VIJOB-PA22-01</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>u-blox M8N module</td>
<td>M.2 to mini-PCIe converter module</td>
<td>1-Port 100Mbps Automotive Ethernet module</td>
<td>2 x M.2c-in &amp; 2 x Line-out module</td>
</tr>
<tr>
<td><strong>Input I/F</strong></td>
<td>UART</td>
<td>USB 2.0</td>
<td>USB 2.0</td>
<td>USB 2.0</td>
</tr>
<tr>
<td><strong>Input Connector</strong></td>
<td>6-pin wafer</td>
<td>mini-PCIe socket</td>
<td>mini-PCIe or USB wafer</td>
<td>mini-PCIe or USB wafer</td>
</tr>
<tr>
<td><strong>Output I/F</strong></td>
<td>UART</td>
<td>M.2</td>
<td>1-Port UTP</td>
<td>Audio</td>
</tr>
<tr>
<td><strong>Output Connector</strong></td>
<td>6-pin wafer</td>
<td>M.2</td>
<td>4-pin wafer to DB9</td>
<td>2 x 6-pin wafer to DB9</td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>Proprietary</td>
<td>Full-size mini PCIe</td>
<td>Full-size mini PCIe</td>
<td>Full-size mini PCIe</td>
</tr>
<tr>
<td><strong>Dimensions (mm)</strong></td>
<td>25.4 x 25.4</td>
<td>51 x 30</td>
<td>51 x 30</td>
<td>51 x 30</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-40°C to 85°C</td>
<td>-40°C to 85°C</td>
<td>-40°C to 85°C</td>
<td>-40°C to 85°C</td>
</tr>
<tr>
<td><strong>Remark</strong></td>
<td>* GNSS Support with GPS, GLONASS, Galileo, and BeiDou</td>
<td>* Untethered Dead Reckoning (UDR)</td>
<td>* With Battery</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>VIJOB-CAN-06</th>
<th>VIJOB-TPMS-01</th>
<th>VIJOB-GPS-02</th>
<th>VIJOB-GPS-DR02</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>OBD SAE J1939 module</td>
<td>Tire Pressure Monitoring System (TPMS) module</td>
<td>u-blox M8N module</td>
<td>u-blox M8L module</td>
</tr>
<tr>
<td><strong>Input I/F</strong></td>
<td>USB 2.0</td>
<td>UART</td>
<td>USB 2.0</td>
<td>USB 2.0</td>
</tr>
<tr>
<td><strong>Input Connector</strong></td>
<td>mini-PCIe socket</td>
<td>mini-PCIe socket or USB wafer</td>
<td>6-pin wafer</td>
<td>6-pin wafer</td>
</tr>
<tr>
<td><strong>Output I/F</strong></td>
<td>CAN Bus 2.0B</td>
<td>OBD SAE J1939</td>
<td>UART</td>
<td>UART</td>
</tr>
<tr>
<td><strong>Output Connector</strong></td>
<td>3-pin wafer to DB9</td>
<td>None</td>
<td>None</td>
<td>3-pin wafer to DB9</td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>Full-size mini PCIe</td>
<td>Proprietary</td>
<td>Proprietary</td>
<td>Proprietary</td>
</tr>
<tr>
<td><strong>Dimensions (mm)</strong></td>
<td>51 x 30</td>
<td>51 x 30</td>
<td>25.4 x 25.4</td>
<td>25.4 x 25.4</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-40°C to 85°C</td>
<td>-40°C to 85°C</td>
<td>-40°C to 85°C</td>
<td>-40°C to 85°C</td>
</tr>
<tr>
<td><strong>Remark</strong></td>
<td>* Tire Pressure, Temperature and Voltage Information available</td>
<td>* GNSS Support with GPS, GLONASS, Galileo, and BeiDou</td>
<td>* Automotive Dead Reckoning (ADR)</td>
<td>* With Battery</td>
</tr>
</tbody>
</table>

#### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>VTK6223 + VTK6281-BK</th>
<th>VTK6222-APK/FPK</th>
<th>VTK634/GE74</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Smart backup battery kit</td>
<td>Vehicle Relay module</td>
<td>External detachable power isolation kit</td>
</tr>
<tr>
<td><strong>Input I/F</strong></td>
<td>9–36VDC</td>
<td>USB 2.0 or RS-232 (Tx/Rx)</td>
<td>PCIe 3.0</td>
</tr>
<tr>
<td><strong>Input Connector</strong></td>
<td>M 2</td>
<td>3-pin terminal block</td>
<td>M72 (5-pin)</td>
</tr>
<tr>
<td><strong>Output I/F</strong></td>
<td>USB type A or DB9</td>
<td>USB type A or DB9</td>
<td>4 x RJ45</td>
</tr>
<tr>
<td><strong>Output Connector</strong></td>
<td>M2</td>
<td>4-pin wafer to DB9</td>
<td>PCIe x4 (+CE4)</td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>Proprietary</td>
<td>4 x 10/100/1000Mbps Ethernet; 2 x M.2 NVMe storage (GE74 only)</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions (mm)</strong></td>
<td>126.5 (W) x 124 (D) x 24 (H)</td>
<td>120 (W) x 198 (D) x 50 (H)</td>
<td>168 x 111 (L x H), 1-slot width (GE64)</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>0°C to 45°C</td>
<td>-40°C to 85°C</td>
<td>-30°C to 85°C</td>
</tr>
<tr>
<td><strong>Remark</strong></td>
<td>* Battery</td>
<td>* Charging 0°C to 45°C</td>
<td>* Battery</td>
</tr>
</tbody>
</table>

#### Model

<table>
<thead>
<tr>
<th>Model</th>
<th>VTK-RELAY-01</th>
<th>VTK634/GE74</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Vehicle Relay module</td>
<td>External detachable power isolation kit</td>
</tr>
<tr>
<td><strong>Input I/F</strong></td>
<td>USB 2.0 or RS-232 (Tx/Rx)</td>
<td>PCIe 3.0</td>
</tr>
<tr>
<td><strong>Input Connector</strong></td>
<td>M72 (5-pin)</td>
<td>4 x RJ45</td>
</tr>
<tr>
<td><strong>Output I/F</strong></td>
<td>USB type A or DB9</td>
<td>PCIe x4 (+CE4)</td>
</tr>
<tr>
<td><strong>Output Connector</strong></td>
<td>M2</td>
<td>4-pin wafer to DB9</td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>Proprietary</td>
<td>PCIe x4</td>
</tr>
<tr>
<td><strong>Dimensions (mm)</strong></td>
<td>126.5 (W) x 124 (D) x 24 (H)</td>
<td>120 (W) x 198 (D) x 50 (H)</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>0°C to 45°C</td>
<td>-40°C to 85°C</td>
</tr>
<tr>
<td><strong>Remark</strong></td>
<td>* Battery</td>
<td>* Charging 0°C to 45°C</td>
</tr>
</tbody>
</table>

**Add-On Modules**

- **NEW**
- **NEW**
- **NEW**

**Add-On Modules**

- **NEW**
- **NEW**
- **NEW**

**Add-On Modules**

- **NEW**
- **NEW**
- **NEW**
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.

NEXCOM integrates its capabilities and operates eight global businesses, which are Industrial Mesh, Intelligent Digital Security, Intelligent Platforms and Services, Mobile Computing Solutions, Medical and Healthcare Informatics, Network and Communication Solutions, Smart Manufacturing, and Open Robotics and Machinery. 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 worldwide 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.

With its focus on delivering these core values to better serve customers, NEXCOM has invested heavily in establishing operational infrastructures, including advanced equipment and facilities, not only at its global headquarters but also at subsidiary offices. Today, each of our service centers, with ISO 9001:2008 certification, has a purpose built assembly line, RMA/DOA center and warehouse storage capability.

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

Business strategy aims 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.

Green Policy

As a global citizen, NEXCOM is committed to providing green products and services, which are compliant with WEEE and RoHS legislation. NEXCOM continues to proactively work with industry peers and suppliers, to clarify standards, and identify compatible technologies and practices that help reduce hazardous substances from our products and manufacturing processes.

Global Fulfillment Service

Product delivery and customer support are always more effective when delivered locally. NEXCOM locates support and provides a global customer service network to handle all aspects of global business, from presales, order taking, and system assembly to logistics. For expeditious product delivery, NEXCOM has established four regional service centers: Taiwan (for Asia), USA (for North America and South America), the United Kingdom (for Europe) and China. Therefore, NEXCOM customers benefit from quality assured product assembly and our service centers.

Quality Assurance

Under a strict Quality Assurance System, product design and reliability are controlled to support all critical solutions, and ensure Total Quality Assurance (TQA) implementation for all NEXCOM products and service. Furthermore, NEXCOM’s technical support team aims to provide feedback within 24 hours to ensure technical issues are resolved in the shortest possible time.

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NEXCOM’s Taiwan based Headquarters

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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.

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## Asia

### Taiwan

**NexAlot Co., Ltd.**  
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Email: jacobhuang@nexaiot.com  
www.nexaiot.com

**GreenBase Technology Corp.**  
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Fax: +886-2-8226-7792  
Email: sales@nexcom.com.tw  
www.nexcom.com.tw

**EMBUX Technology Co., Ltd.**  
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Fax: +886-2-8226-7792  
Email: sales@nexcom.com.tw  
www.nexcom.com.tw

**TMR Technology Corp.**  
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### China

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Fax: +86-10-5704-2481  
Email: marketing@nexsec.cn  
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