DARVEEN

2024
Product Solution Guide

DARVEEN

Optimize Productivity Across Industries with
Darveen's
Industrial Computers

Our Capabilities

Product Development and Testing

We uphold a rigorous control process throughout the development and verification phases, from EVT/DVT/PVT to MVT. We improve testing indicators at every stage, supported by an excellent testing lab equipped with IPX6 water-proof testing devices, high and low temperature testing boxes, constant temperature and humidity testing boxes, burn-in testing boxes, high frequency 3-axis electromagnetic vibration machines, salt spray cabinets, sand-dust testing chambers, drop testing machines, and other advanced equipment. Our commitment extends to providing industry certifications, such as CE/FCC/CCC and US Military Standard, tailored to our client's needs, making Darveen a quality-driven choice for industrial solutions.

Expertise in Manufacturing

With four production lines adhering to standard SOPs, our staff works diligently to maintain consistent quality. Our MES system ensures product traceability, and we perform quality control at every stage of the manufacturing process, from IQC, IPQC, FQC to OQC. Our manufacturing and engineering facilities are certified to the latest ISO-9001, ISO-14001 and ISO-45001 standards. Our greatest advantage in manufacturing lies in the extensive production capacity and significant flexibility of our Shenzhen Manufacturing Center, allowing us to promptly meet customer delivery demands.

Recognition and Innovation

We are a recognized "National Hi-Tech Enterprise", known for innovation, holding more than 100 patents affirming dedication to creativity and independent Research and Development. We offer pioneering solutions in top-notch industrial computing, backed by extensive industry experience.

Our Commitment to the Environment

Our environmental policy is executed in the design and production process, where we strive to reduce damage to the environment by recycling manufacturing materials. Our products are compliant with RoHS and REACH standards. This means we take all reasonable measures to ensure that our products and those of our suppliers are compliant with these directives.

We Are Darveen

Established in 2007, Darveen has been dedicated to developing rugged industrial computer solutions tailored to the unique needs of various vertical industries. Our product lines include in-vehicle computers, industrial panel PCs, rugged tablets, embedded box computers, and industrial monitors. Darveen's vehicle-mounted computer solutions have successfully helped hundreds of container terminals in streamlining their processes and operations. With nearly 20 years of experience in product design and manufacturing, Darveen's products have gained widespread acceptance in diverse markets, including container terminals, warehousing, manufacturing, industrial equipment, mining, and special vehicle fleets.

Vehicle Mount Computers

	VT Series	FMT Series	MVT Series
Ports	●	●	
Warehouse	●		
Transportation and Logistics		●	
Mining		●	
Agriculture		●	
Railway			●

In-vehicle Box Computers

	VC Series	MVC Series
Transportation and Logistics	●	●

Rugged Tablets

	RTC Series
Manufacturing	●
Warehouse	●
Transportation and Logistics	●
Field Services	●
Public Sector	●
Agriculture	●
Energy	●

Industrial Panel Computers

	DPC Series	APC Series	SPC Series	RPC Series
Manufacturing	●	●	●	●
Warehouse	●	●		
Kiosk and Retail	●	●		
Energy	●	●		
Surveillance	●	●		

Embedded Box Computers

	MBC Series	MIC Series	VBC Series	NBC Series	AEC Series
Manufacturing	●	●	●	●	●
Warehouse	●	●	●	●	●
Kiosk and Retail	●	●		●	●
Surveillance	●	●	●		
Energy	●	●		●	●

Industrial Computers

	DMB Series	DIC Series
Manufacturing	●	●
Surveillance	●	●
Energy	●	●

Ports and Terminals

Due to the prevalence of e-commerce and the post-pandemic recovery, the management of port terminals at global ports has become increasingly complex. This has led to a growing number of port operators seeking reliable and robust IT solutions. Whether it involves gantry cranes, quay cranes, yard cranes, reach stackers, forklift trucks, or container trucks responsible for transporting goods, there is a critical need to effectively monitor mobile machinery, assets, and human resources. Darveen offers rugged computing solutions with timely and stable data transfer to enhance the efficiency of container handling and cargo movement. Darveen's optimized rugged computers facilitate the deployment of port automation.

Darveen's Solutions & Advantages
● A comprehensive selection of products
Darveen's VT series of vehicle mount computers offer 7 to 12.1 inches, x86 or ARM CPUs, supporting Windows and Android OS. The rugged tablet RTC series provides 8 to 10.1-inch options.

● Rugged to withstand harsh environment
The VT series features an aluminum alloy case for anti-corrosion and exceptional durability against salt and fog. It complies with IP65 and MIL-STD-810G standards, while RTC tablet is IP67-rated and MIL-STD-810H compliant.

● Seamless wireless connectivity
Both the VT and RTC series offer various wireless connectivity options, including Wi-Fi, Bluetooth, 4G or 5G, and GNSS.

● Wide input voltage and power ignition
The VT series offers a standard 8 to 36 VDC (optional 18 to 72 VDC) wide input voltage and power management with ignition control.

● Versatile mounting brackets and accessories
The VT series comes with different mounting brackets, keyboards, and IP65 M12 connectors. The RTC Android series features a 10,000mAh battery for prolonged usage.

| Vehicle Mount Computer | Rugged Tablet |

VT-878 — Quay Cranes
VT-768K — Reach Stackers
VT-640A — Trucks
VT-858K — Rubber Tyre Gantry Cranes

Warehouse Forklifts

As warehouse intelligence continues to advance, the automation and informatization levels of forklifts in warehouses have also been significantly enhanced. Darveen's VT series of vehicle-mounted computers and RTC series of rugged tablets, equipped with rich I/O interfaces and data collection functions, cater to the operational needs of warehouses—from picking and receiving to inventory management. Through advanced wireless technology, they offer faster and more stable data transmission, providing more accurate and real-time data support for intelligent warehouse management.

Darveen's Solutions & Advantages
● Tough and durable
Darveen's VT series and RTC series comply with US military MIL-STD-810G/IP65 and MIL-STD-810H/IP67 respectively and can withstand long-term vehicle vibration operations.

● Real-time transmission of data and location
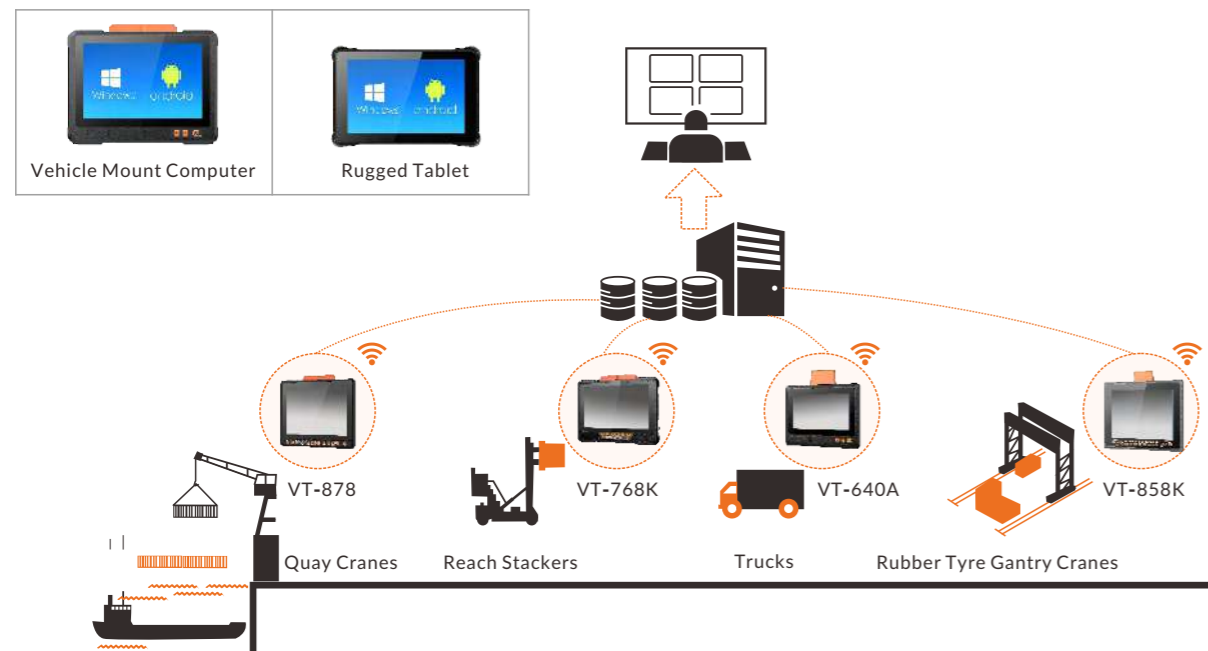Both the VT and RTC series offer various wireless connectivity options, including Wi-Fi, Bluetooth, 4G or 5G, and GNSS.

● Multiple I/O and versatile functions
In addition to built-in I/O interfaces (USB, COM, LAN, CAN bus), the VT series can also be expanded with M12 connectors. The RTC series supports 2D barcode reading, NFC, RFID, fingerprint (optional).

● Versatile mounting brackets and accessories
The VT series comes with different mounting brackets, keyboards, and IP65 M12 connectors. The RTC Android series features a 10,000mAh battery for prolonged usage.

| Vehicle Mount Computer | Rugged Tablet |

RFID Reader

VT-768K
Vehicle Mount Computer

Warehouse Inventory
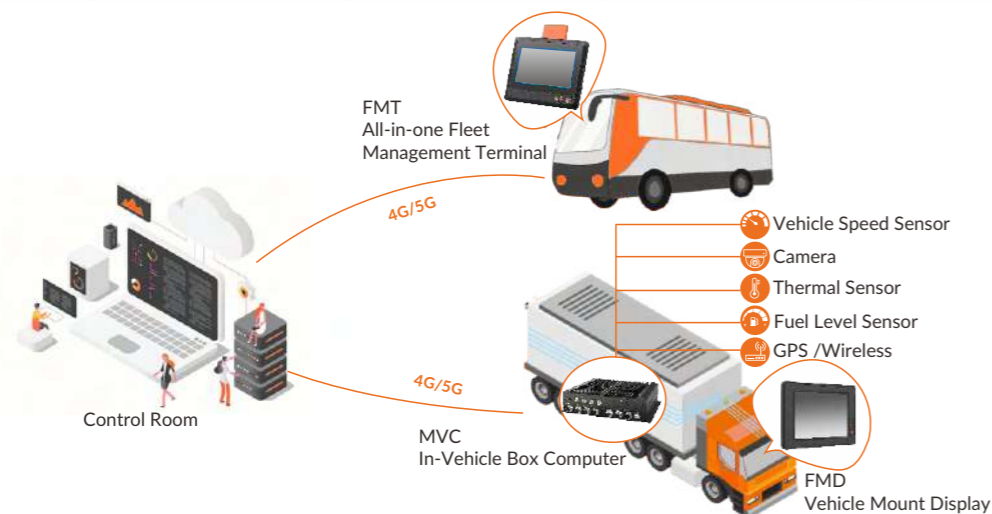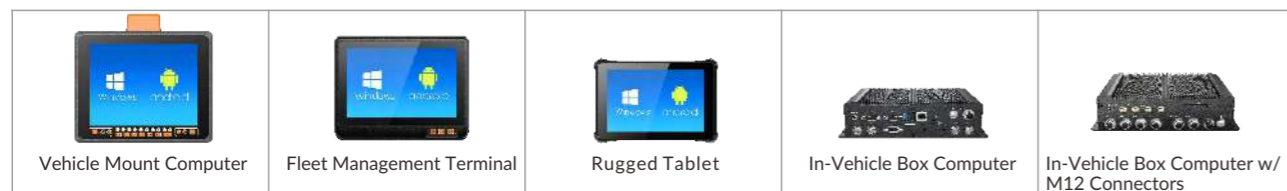Tracking Software

RFID Antenna

Intelligent Fleet Management

Currently, freight logistics face many challenges, including rising fuel prices and emission pollution. To achieve optimal fleet management, it is essential to apply vehicle telematics technology in fleet management. This involves integrating technologies such as Wi-Fi, 4G/5G, the Internet of Things, edge computing, and smart sensors to facilitate the collection of data such as vehicle location and fuel consumption. Connected fleet management can assist fleet managers, logistics operators, and drivers by providing real-time reports and analyses on route planning, fuel consumption analysis, and vehicle health diagnosis, enabling them to make informed and prompt decisions.

Darveen's Solutions & Advantages

● All-in-one and box PC solutions
Darveen offers vehicle mount computers with 7 to 12.1-inch touchscreen interfaces and in-vehicle box computers designed for data collection and control purposes.

● 4G/5G real-time fleet communication and tracking
Darveen's vehicle computers ensure wireless connectivity through 4G/5G SIM cards and Mini PCIe expansion, allowing seamless real-time vehicle tracking with GNSS positioning functions.

● Wide input voltage and power ignition
Darveen's vehicle computers offer a standard 8 to 36 VDC wide input voltage and power management with ignition control.

● Industrial-grade I/O interfaces
The in-vehicle computer product line provides I/O interfaces such as USB, COM, GPIO, and CAN bus to connect peripheral devices. The MVT and MVC series feature rugged M12 connectors.

● Rugged and durable
Darveen's vehicle computers are compliant with the US military standard MIL-STD-810G for shock and vibration. The VT series is also IP65-rated for water and dust resistance.

Vehicle Mount Computer	Fleet Management Terminal	Rugged Tablet	In-Vehicle Box Computer	In-Vehicle Box Computer w/ M12 Connectors

FMT
All-in-one Fleet
Management Terminal

4G/5G

Vehicle Speed Sensor
Camera
Thermal Sensor
Fuel Level Sensor
GPS /Wireless

4G/5G

Control Room

MVC
In-Vehicle Box Computer

FMD
Vehicle Mount Display

Mining Vehicles

Digitizing mining is an extremely challenging field. The scope of data management extends from vast expanses covering several kilometers to precision measurements down to centimeters, making data transmission highly complex. Additionally, mining environments are often harsh, with extreme temperatures, high dust levels, and challenging conditions. The shocks and vibrations on the ground add to the challenges, requiring in-vehicle computers used for fleet management to be rugged and durable. Darveen's vehicle mount computers provide precise positioning and data connectivity for mining management and have successfully been deployed in numerous mining sites worldwide.

Darveen's Solutions & Advantages

● Rugged industrial design
The VT and MVT series feature robust aluminum alloy cases for exceptional durability, IP65 sealing, and MIL-STD-810G compliance. Additionally, the MVT series is equipped with higher protection class M12 connectors.

● Real-time transmission of data and location
Darveen's vehicle mount computers offer various wireless connectivity options, including Wi-Fi, Bluetooth, 4G or 5G, and GNSS.

● Multiple I/O for peripheral connection
Darveen's vehicle mount computers include I/O interfaces such as USB, COM, LAN, and CAN bus. They can integrate with walkie-talkies to facilitate team communication.

● Wide input voltage and power ignition
The VT, FMT and MVT series offer a standard 8 to 36 VDC (optional 18 to 72 VDC) wide input voltage and power management with ignition control.

Vehicle Mount Computer	Vehicle Mount Computer w/ M12 Connectors	Fleet Management Terminal

Wifi

Vehicle Mount Terminal w/M12 Connectors

DC Input   RS-232

ACC   Battery

8~36V Power Ignition   UHF RFID
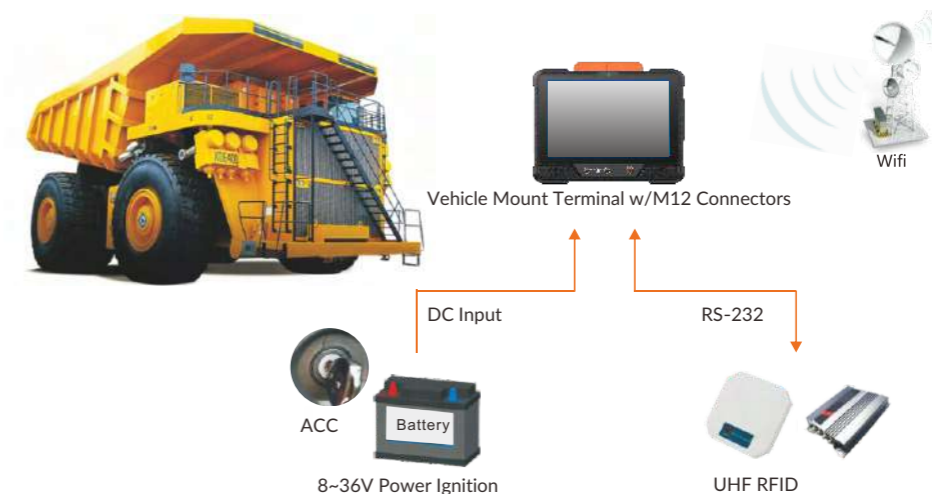
Field Services

Darveen's rugged tablet PCs undergo rigorous testing to ensure unparalleled durability and resilience in extreme conditions. Engineered for enhanced productivity, our rugged tablet computers are versatile, providing optimal performance for the mobile workforce. They facilitate instantaneous communication and data exchange between field technicians and back-end operators. With rugged and durable features, they enable field personnel to work easily in harsh environments and extreme weather, enhancing efficiency and providing insights for decision-making.

Darveen's Solutions & Advantages

● Rugged product portfolio
The RTC series offer 8- and 10.1-inch options, supporting both Windows and Android operating systems. It complies with IP67 and meets MIL-STD-810H standards.

● Reliable, real-time communication
The RTC series supports various wireless connectivity options, including Wi-Fi, Bluetooth, and 4G LTE.

● Intuitive, accurate data capture
Equipped with a camera, 1D/2D barcode scanning, RFID reading, and fingerprint identification (optional), the RTC series allows field workers to easily document worksite conditions and capture evidence.

● High productivity
The RTC series offers versatile connectivity with USB, USB Type-C, LAN, HDMI, and aviation plug options. It also features a sunlight-readable 700-nit screen for outdoor use.

● Accessories and interchangeable battery
Accessories such as an office charging dock, a vehicle mounting dock, and a hand strap are available. The RTC Android series features a 10,000mAh battery for prolonged usage.

Rugged Tablet

Rugged Tablet

Control Center

Real-time Communication

Dispatch Management

Data Collection

Industrial HMIs

As the manufacturing industry transitions towards Industry 4.0 and smart factory transformations, digital machineries have been extensively introduced into shop floors. In factories, each workstation is equipped with an industrial panel computer serving as a Human-Machine Interface (HMI), connected to MES servers via Ethernet. Through these industrial panel computers, operators can promptly receive production instructions, and e-SOPs for individual work orders are displayed on the screen, providing assistance to operators for real-time coordination, quality management, and digital data recording through data collection and monitoring. Darveen's industrial panel PCs effectively achieve optimized management throughout the entire production process, enhancing delivery capabilities and material control. In food processing factories, facing residues and greasy environments, Darveen also offers stainless panel PCs to reduce the corrosion and downtime losses of computers.

Darveen's Solutions & Advantages

● Comprehensive HMI selections
Darveen offers industrial panel PCs ranging from 8 to 21.5 inches, with CPU platforms from ARM to Intel Celeron/Core-i CPUs. Users can also choose between Windows or Android OS.

● User-friendly touch screen
Touch options include an ultra-sensitive multi-point projective capacitive touchscreen (P-CAP) or a single-point resistive touchscreen.

● Built tough for harsh environments
The entire series is fanless and provides diverse specifications for different environments, including IP65 front panels, full IP65 with M12 connectors, and full IP66 stainless steel with M12.

● Rich I/O connectors for easy connection to factory equipment
Available ports include USB, GbE LAN, and COM to connect to factory equipment such as scanners, RFID readers, printers, alarms, and sensors.
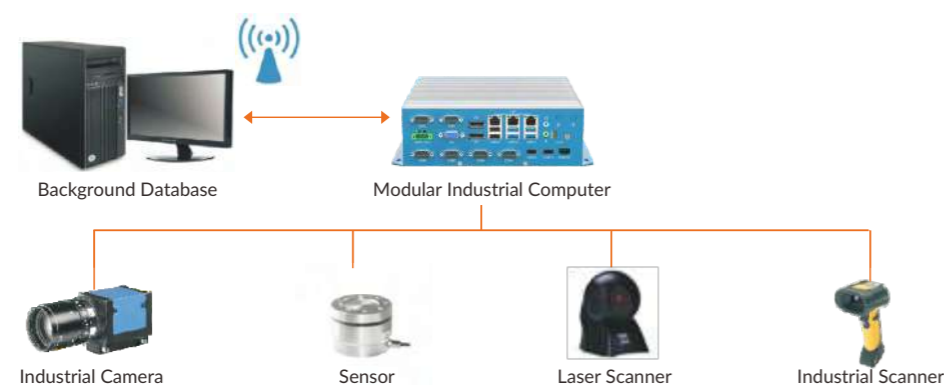
Industrial Panel PC   Stainless Panel PC   IP65 Waterproof Panel PC

ERP   MES   Industrial Panel PC   AP

Scanner   Fixed Scanner   Reader   ISBN Printer   Alarm System

The introduction of embedded computers plays a crucial role in modern factory automation. Through the realization of automated production processes, embedded computers not only facilitate efficient communication between machines but also contribute to the achievement of smart factories by enabling machine vision inspection for quality management. These computers collect production data, compute and analyze data to optimize production. They transmit production data to central control rooms via high-speed networks, providing real-time and comprehensive decision-making information for businesses. Darveen's rugged embedded computers and industrial computers endure harsh industrial conditions, performing data collection, monitoring, and predictive maintenance for enhanced production efficiency.

Darveen's Solutions & Advantages

● Diverse product portfolio
Darveen offers embedded computers and industrial chassis solutions, providing flexible customization and high integration capabilities tailored to customers' applications.

● Robust build for continuous operation
Key features include a wide temperature range, wide 9-36 VDC input, and optimized heat dissipation. The cableless and fanless design not only enhances reliability but also reduces maintenance and downtime costs.

● Abundant I/O and flexible expansion
Rich I/O interfaces, such as USB, GbE LAN, COM, PoE, and GPIO, cover a wide range of scenarios in smart factory usage.

● Highly expandable
The internal Mini PCIe and PCI/PCIe expansion slots are available for wireless communication and additional function expansion, catering to various factory applications.
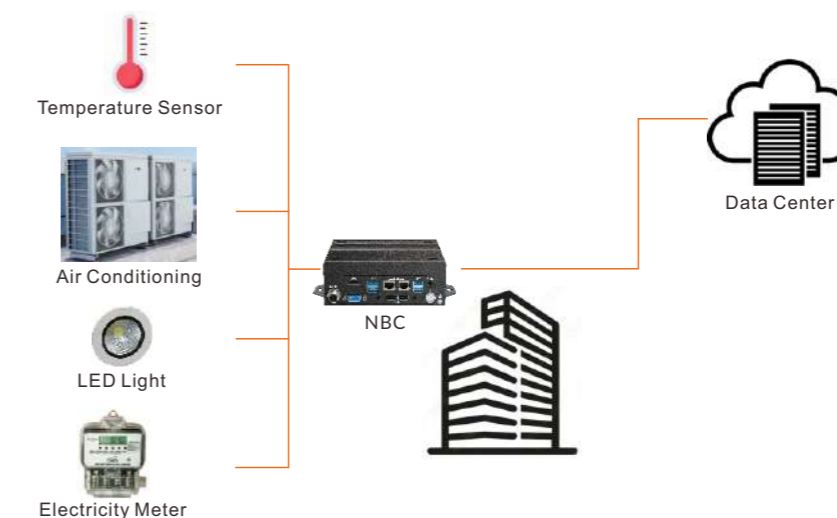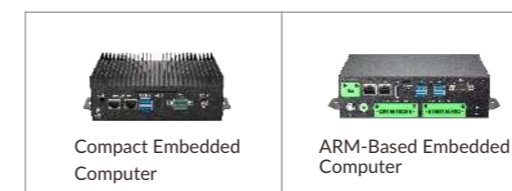
Embedded Box Computer	Modular Industrial Computer	Machine Vision Computer	Industrial Computer Chassis

Background Database — Modular Industrial Computer

Industrial Camera — Sensor — Laser Scanner — Industrial Scanner

The IoT Gateway serves as a bridge between IoT devices and the cloud, with the functionality of processing, converting, and managing data. IoT devices or sensors utilize wireless technologies like Zigbee, Bluetooth, Wi-Fi, LTE, etc., for communication with the IoT Gateway. The IoT Gateway aggregates and transmits on-site data to the cloud control center through Wi-Fi or LTE. The applications of the IoT Gateway are ubiquitous, especially in unattended remote areas, spanning industrial fields, energy and utilities, smart buildings, agriculture, and smart cities, among others. It can effectively monitor different aspects, including air quality, smart meters, and security systems. Darveen's compact embedded computer can serve as the hardware platform for the IoT Gateway, enabling a seamless connection from the edge to the cloud.

Darveen's Solutions & Advantages

● Flexible small form factor
Darveen's NBC and AEC series are based on ARM and x86-based platforms, featuring a compact design suitable for installation in space-constrained control cabinets.

● Efficient and economical
The NBC series is powered by Intel Celeron or Atom CPUs, with a low TDP of 12 Watts or less, while the AEC series utilizes the RockChip ARM-based RK3399/RK3568 processor. Both are ideal for low-power IoT gateway applications.

● Rugged and wide power design
Darveen's NBC and AEC series operate in a wide temperature range of -10 to 60°C. With 9-36 VDC inputs (optional), they accommodate a wide array of applications.

● Rich connectivity for M2M (machine-to-machine) communication
The NBC and AEC are equipped with rich wireless connectivity features such as 5G/4G LTE, Wi-Fi, Bluetooth, and I/O connectivity options such as COM, USB, GbE LAN, DIO, CAN Bus (optional).

Compact Embedded Computer	ARM-Based Embedded Computer

Temperature Sensor

Air Conditioning

LED Light

Electricity Meter

NBC

Data Center

Vehicle Mount Computers

Diverse Product Selections
Darveen's vehicle mount computers provide a diverse range of options, including screen sizes from 7 to 15 inches, capacitive and resistive touch, and a choice between Windows and Android operating systems. Various CPU options are available, ranging from Intel® Celeron® and Core™ i5 to ARM-based processors.

Rugged Reliability
Constructed from die-cast aluminum alloy, the vehicle mount computers provide exceptional durability and corrosion resistance in challenging environments and operate at temperatures -20 to 60°C. With a fanless design for minimal maintenance, the VT and MVT series also feature dust- and water-proof IP65 sealing and meet MIL-STD-810G standards for shock and vibration resistance.

Advanced Wireless Antennas
Our products come equipped with built-in Wi-Fi, 4G/5G communication modules, and support different positioning options, like GPS, GLONASS, Galileo, and Beidou. This ensures smooth real-time communication for swift order dispatch and tracking individual vehicles from remote locations.

Adaptable Power Connectivity
To address voltage fluctuations and different vehicle power specifications, our vehicle mount computers incorporate a wide-voltage power input (8 to 36 VDC) and feature ignition control for ensuring power supply stability.

Windows Vehicle Mount Computers

VT Series (OS: Windows)
- Intel® Core™ i5 / Celeron® processor
- 7" to 15" TFT-LCD with 5-wire resistive or P-Cap touchscreen (400-1,000 nits)
- Available with numeric, function keys, or QWERTY keyboard
- Rugged aluminum enclosure and fanless design
- IP65 protection against water and dust
- Compliant with MIL-STD-810G vibration testing standards
- Wide range 8-36VDC power input with ignition control
- Flexible expansion capability for Wi-Fi 6E, Bluetooth 5.3, LTE, 5G, GPS, CAN2.0B

Android Vehicle Mount Computers

VT Series (OS: Android)
- Rockchip RK3399 processor
- 7" to 15" TFT-LCD with P-Cap touchscreen (400-1,000 nits)
- Available with numeric or function keys
- Rugged aluminum enclosure and fanless design
- IP65 protection against water and dust
- Compliant with MIL-STD-810G vibration testing standards
- Wide range 8-36VDC power input with ignition control
- Flexible expansion capability for Wi-Fi 5, Bluetooth 4.2, LTE, 5G, GNSS

Fleet Management Terminals

FMT Series
- Intel® Celeron® / Unisoc 8581 / Rockchip RK3568 processor
- 7" to 10.1" TFT-LCD with P-Cap touchscreen
- Rugged metal enclosure and fanless design
- Wide range 8-36VDC power input with ignition control
- Flexible expansion capability for Wi-Fi, Bluetooth, LTE, 5G, GPS, CAN2.0B
- Supports Windows, Linux or Android operating systems

Vehicle Mount Computers with M12 Connectors

MVT Series
- Intel® Core™ i5 / Celeron® / Rockchip RK3399 processor
- 10.1" industrial LCD with P-Cap touchscreen
- M12 connector I/O interfaces
- IP65 protection against water and dust
- Wide range 8-36VDC power input with ignition control
- Optional Wi-Fi, Bluetooth, LTE, 5G, GPS, CAN2.0

In-vehicle Box Computers

In-Vehicle Box Computers

VC Series
- Intel® Celeron® processor
- Rugged aluminum enclosure and fanless design
- Wide range 8-36V DC Power input with ignition control
- Optional for Wi-Fi, Bluetooth, LTE w/ Micro-SIM, GPS, CAN2.0B
- Wide operating temperature range of -30°C to 70°C
- Compliant with MIL-STD-810G vibration testing standards

In-Vehicle Box Computers with M12 Connectors

MVC Series
- Intel® Core™ i7/i5 / Celeron® processor
- Rugged and fanless design with M12 connectors
- Wide range 8-36V DC Power input with ignition control
- Optional support Wi-Fi, Bluetooth, LTE, GPS, CAN2.0, J1708
- Wide operating temperature range of -30°C to 70°C
- Compliant with MIL-STD-810G vibration testing standards

Seamless Wireless Connectivity
Darveen's in-vehicle box computers come equipped with built-in Wi-Fi, Bluetooth, 4G/5G communication modules, and support different positioning options, like GPS, GLONASS, Galileo, and Beidou. This ensures smooth real-time communication for swift order dispatch and tracking individual vehicles from remote locations.

Rich I/O Interfaces and Rugged M12 Connectors
Darveen's in-vehicle box PCs provide diverse I/O interfaces, including standard CAN Bus, enabling the retrieval of data from sensors and offering vehicle health diagnostics and predictive maintenance for fleet management. The MVC series features M12 connectors with vibration resistance, ensuring computing stability during the move.

Rugged Reliability
Darveen's in-vehicle box PCs are designed to withstand the rigorous environmental conditions for both on and off-road vehicle applications. They feature a fanless design, a wide operating temperature range of -30 to 70°C, and comply with MIL-STD-810G standards for shock and vibration resistance.

Adaptable Power Connectivity
To address voltage fluctuations and different vehicle power specifications, our in-vehicle pcs incorporate a wide-voltage power input (8 to 36 VDC) and feature ignition control for ensuring power supply stability.

Rugged Tablets

Versatile Options
Darveen's rugged tablets are offered in x86 or ARM processors, Windows or Android operating systems, and screen sizes of 8 or 11.6 inches. They also support handwriting input, glove touch, stylus and wet touch modes, catering to various needs.

Built to Last
Our rugged tablets provide stability and reliability to operate effectively in the most challenging environments. They are engineered to withstand extreme temperatures, shocks, vibrations, and drops, compliant with IP67 for water and dust resistance and meet MIL-STD-810H standards.

Seamless Wireless Connectivity
The RTC series supports a diverse range of connectivity options, including Wi-Fi, Bluetooth, and 4G LTE. This ensures smooth data transmission and real-time communication with the control center, a crucial capability for field service applications.

High Productivity
The RTC series offers extensive I/O connectivity, including USB, USB Type-C, LAN, COM and aviation plug options, facilitating the connection of diverse peripherals. Additionally, the tablet supports 2D barcode and RFID reading and writing. It features an integrated sunlight-readable screen and removable high-capacity battery.
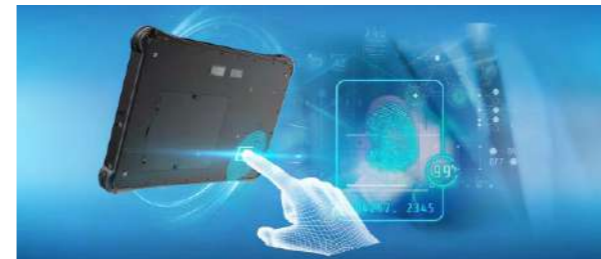
Enhanced Data Security
The RTC series includes multiple identity verification options for more convenient and secure login, such as fingerprint readers and smart card readers. It also supports logging into tablets based on facial recognition and infrared camera technology.

Long-Lasting Hot-swap Battery
For mobile workers, efficient battery management is as crucial as the functionality of the tablet itself. The dual hot-swap battery design of RTC-I116 provides sufficient capacity for a full day of work. Additionally, the RTC-I116 supports fast charging through the USB-C interface.

Windows Rugged Tablets

RTC Series
- Intel® Core™ i7/ Core™ i5 / Celeron® processor
- Available with 8, 10.1, and 11.6-inch LED panels, sunlight readable
- Integrated 1D/2D barcode reader, NFC, RFID, fingerprint (optional) for data collection
- Supports 4G, Wi-Fi, Bluetooth, and GNSS
- Rich I/O interfaces, including serial port, RJ45 Ethernet, USB, HDMI
- Removable high-capacity battery design
- Hot-swappable battery (RTC-I116 only)
- IP67 and MIL-STD-810H certified

Android Rugged Tablets

RTC Series
- MediaTek MT6771 Octa-core processor
- Available with 8 and 10.1-inch LED panels, sunlight readable
- Integrated 1D/2D barcode reader, NFC, RFID, fingerprint (optional) for data collection
- Supports 4G, Wi-Fi, Bluetooth, and GNSS
- Rich I/O interfaces, including serial port, RJ45 Ethernet, USB, HDMI
- Removable high-capacity battery design
- IP67 and MIL-STD-810H certified

Darveen provides a full suite of accessories that bring ease of use and management.

Office Docking	Vehicle Docking	Hand Strap	Shoulder Strap	Carry Bag

Industrial Panel PCs

DPC Series
- Processor:
  DPC-7000 and DPC-8000 series: 10/11th Gen high-performance Intel® Core™ i processor
  DPC-9000 series: Intel® Core™ U-Series / Celeron® processor
- Screen size:
  DPC-7000 and DPC-8000 series: 15.6", 18.5", 21.5" LCD with P-Cap or resistive touchscreen
  DPC-9000 series: 8" to 21.5" LCD with P-Cap or resistive touchscreen
- Rugged aluminum housing and fanless design
- Supports Wi-Fi 6 (DPC-7000), Bluetooth, 4G, and 5G
- Supports VESA mount and panel mount
- IP65 rated front panel

Android Panel PCs

APC Series
- Rockchip RK3399 processor
- 10.1" to 21.5" LCD with P-Cap touchscreen
- Rugged aluminum enclosure and fanless design
- Supports Wi-Fi, 4G, and 5G
- Supports VESA mount and panel mount
- IP65 rated front panel

Stainless Panel PCs

SPC Series
- Intel® Core™ i5 or Celeron® processor
- 15" to 19" LCD with resistive or P-Cap touchscreen
- Food-grade SUS304 stainless steel housing for corrosion resistance
- M12 I/O connectors
- Fanless and full IP66/IP65 protection
- Optional Wi-Fi, Bluetooth, 4G, and 5G

IP65 Waterproof Panel PCs

RPC Series
- Intel® Core™ i5 or Celeron® processor
- 12" to 19" LCD with resistive or P-Cap touchscreen
- Rugged aluminum housing and fanless design
- M12 I/O connectors
- Fanless and full IP65 protection
- Optional Wi-Fi, Bluetooth, 4G

Need brackets or peripherals for your all-in-one panel PCs? We offer a wide selection of peripherals for various installations and applications. Please contact our sales team.

Full Selections and Various Functionalities
Darveen's industrial panel computers comprise four series: the Windows DPC Series and the Android APC Series for general industrial environments, the SPC Series designed for the food processing industry, and the RPC Series tailored for environments with high-dust environments. These panel PCs offer various screen sizes, P-Cap or resistive touchscreens, and CPUs with different performance levels to meet diverse HMI needs.

Unique System Design
Our industrial panel PCs offer a multifunctional and robust computing platform with extensive capabilities, including isolated serial ports, isolated power supply boards, and built-in UPS modules. Darveen's unique modular design, which combines a modular I/O board and CPU mainboard, provides customers with a high level of I/O customization options and facilitates easy CPU platform upgrades.

Rugged Design
Darveen's fanless industrial panel PCs, designed for efficient passive cooling, are adaptable for prolonged use in harsh industrial environments. With different IP waterproof and dustproof ratings, wide voltage input, and wide temperature operation capabilities, they serve as the ideal HMI solution for challenging industrial applications.

Flexible Installation and Comprehensive Accessories
We provide comprehensive installation solutions, supporting both VESA mount and panel mount. Additionally, a variety of accessories and mounting brackets are available, making it the ideal solution for HMI applications in industrial environments or as a self-service kiosk.

Industrial Displays

Diverse Product Selections
Darveen's industrial touch monitors provide a comprehensive range of LCD sizes, ranging from 8 to 21.5 inches. They feature resistive or P-Cap touchscreens with 4:3 and 16:9 aspect ratios, catering to a variety of applications. The open-frame series facilitates seamless integration into different machines.

High Durability
Our industrial monitors boast an all-metal structure design, providing excellent seismic resistance and durability, as well as outstanding heat dissipation and rust resistance. The front panel is IP65 waterproof and dustproof. With its stable system architecture, Darveen's industrial monitors demonstrate the reliability in the challenging industrial environments.

High Brightness and High Readability
Darveen's high-brightness industrial monitors feature a brightness of up to 1,000 nits, ensuring excellent visibility even in direct sunlight and outdoor use. The screen surface undergoes anti-glare and anti-fingerprint treatments, making it easy to clean and maximizing readability.

Flexible Installation Options
All our monitors can be installed using either panel mount or the universal 75/100mm VESA mount. With flexible installation options, easy setup, and maintenance, our monitors can seamlessly integrate into most machines or various environments.

Ultra-thin Industrial Monitors

DPM Series
- 8" to 21.5" LED-backlit LCD with 5-wire resistive or P-Cap touchscreen
- Rugged aluminum enclosure
- Supports VGA, DVI, HDMI display interfaces
- DC in 12 to 24V
- Supports VESA 75/100 mount and panel mount
- IP65 compliant front panel

High-brightness Industrial Monitors

DPM High-brightness Series
- 10.1"/ 12.1"/ 15.6" LED-backlit LCD with capacitive touchscreen
- High brightness up to 1,000 nits
- Rugged aluminum enclosure
- Supports VGA, DVI, HDMI display interfaces
- DC in 12 to 24V
- Supports VESA 75/100 mount and panel mount
- IP65 compliant front panel

Open Frame Monitors

OFM Series
- 12.1" / 15" / 17" / 18.5" LED-backlit LCD
- Open frame architecture design
- Supports VGA, DVI, HDMI display interfaces
- High brightness from 700 to 2,000 nits (Optional)
- Sunlight readable
- Wide temperature customization (Optional)
- Supports VESA 75/100 mount

Full Range Offerings
Darveen offers a comprehensive range of embedded computing solutions for diverse applications, featuring x86 and ARM-based platforms and with various form factors. The MBC and MIC series provide extensive I/O interfaces and PCI/PCIe expansion options. The VBC series is equipped with multiple PoE LAN ports for machine vision, while the NBC and AEC series are compact embedded PCs for space-limited applications.

Outstanding System Design
Darveen's embedded computers utilize aluminum housing for optimal heat dissipation. They feature a fanless and cableless design to minimize component damage and reduce computer downtime. Additionally, the modular design of the CPU mainboard and I/O board allows flexible customization according to customer requirements.

Rugged Reliability
The rugged features include a fanless design, wide operating temperatures, robust aluminum housings, isolated serial ports, and wide voltage input, ensuring a significantly prolonged lifespan and high system availability.

Rich I/O Interfaces
Darveen's embedded computers boast a variety of I/O interfaces for supporting major types of peripherals, including USB, LAN, COM, GPIO, and support 2.5-inch SATA/SSD or mSATA storage. Additionally, they come equipped with expansion slots like Mini PCI and PCI/PCIe, enabling wireless transmission or the addition of extra functionalities.

PCI/PCIe Expansion

Fanless Box Computers

MBC Series
- Intel® Core™ i7/i5/i3 or Celeron® processor
- Fanless and cableless design
- Modular and flexible I/O combination, easy for I/O board customization
- Rich I/O interfaces, including USB, LAN, GPIO, DIO, isolated COM
- Available with 2x PCI/PCIe expansion slots for GPU, network or other PCIe cards
- Wide range 9-36VDC power input
- Flexible expansion capability for Wi-Fi 6, Bluetooth, 4G, 5G, GPS, CAN2.0B

Modular Industrial Computers

MIC Series
- Intel® high-performance desktop Core™ i / Celeron® / Pentium® processor
- Fanless and cableless design
- Modular and flexible I/O combination, easy for I/O board customization
- Rich I/O interfaces, including USB, LAN, GPIO, isolated COM
- Available with 2x or 4x PCI/PCIe extensive expansion slots for GPU, network or other PCIe cards
- Wide range 9-36VDC power input
- Flexible expansion capability for Wi-Fi 6, Bluetooth, 4G, 5G, GPS, CAN2.0B

Machine Vision Computers

VBC Series
- Intel® high-performance desktop Core™ i7/i5/i3 processor
- Supports up to 6 xLAN (with 4 xPoE)
- 8x USB 3.0, 4x COM
- 16 channels isolated GPIO
- Available with 4x PCI/PCIe extensive expansion slots for GPU, network or other PCIe cards

Compact Embedded Computers

NBC Series
- Intel® low-power Core™ i5 / Atom® / Celeron® processor
- Fanless and cableless design
- Rich I/O interfaces, including USB, LAN, COM, VGA, HDMI
- Wide range power input (Available on selected models)
- Available with 1x M.2 and 1x full length Mini PCIe socket
- Flexible expansion capability for Wi-Fi, Bluetooth, 4G, CAN2.0B

ARM-Based Embedded Computers

AEC Series
- Rockchip RK3399 / RK3568 processor
- Metal or aluminum structure, fanless design. Supports DIN-rail mount
- Rich I/O interfaces, including USB, COM, LAN, DIO, optional CAN port
- Supports WiFi, Bluetooth, 4G/5G, GPS
- Supports Android or Linux

Industrial Motherboards

DMB Series
- Intel® 13/12/10/9/8/7/6th Gen Core™ / Pentium® / Celeron® desktop processor
- Rich I/O interfaces for easy integration with peripheral devices including multiple COM, USB, GbE LAN
- Supports VGA, DVI, HDMI, eDP display interfaces
- Supports up to 7 PCI/PCIe expansion slots

Industrial Computer Chassis

DIC Series
- Compatible with ATX, Micro-ATX, Mini-ITX motherboards
- Supports up to 7 PCI/PCIe expansion slots
- Easy installation. Supports both horizontal and vertical mounting
- Compatible with high-power power supplies, high-power GPU cards, and standard fans

Easy Setup for Your Custom Solution
Darveen offers industrial chassis solutions in various sizes such as 1U, 2U and 4U, which are compatible with standard form factors of motherboards. Customers can flexibly configure them according to their specific applications.
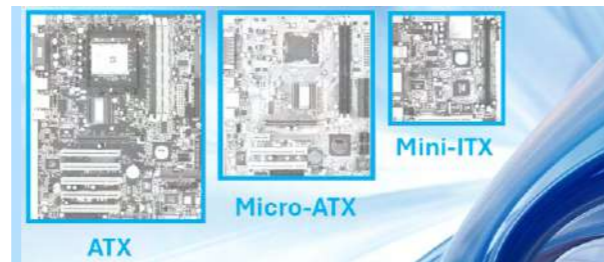
Outstanding Industrial Design of Chassis
Darveen offers industrial-grade rack-mountable chassis and wall-mounted chassis solutions, supporting various standard industrial motherboards such as ATX, Micro-ATX, Mini-ITX, etc. The chassis features a well-designed airflow structure, ensuring optimal heat dissipation and suitability for industrial applications.

Versatile Industrial Motherboards
Darveen's industrial motherboards deliver optimal performance and reliability for industrial applications. The I/O ports of these motherboards are integrated onto a single circuit board, allowing for easy use and quick setup. They are suitable for various applications, including communication, transportation, and industrial automation.

Suitable for Various Industrial Applications
Darveen's industrial chassis solutions meet various demands by incorporating a range of features, including vPro, AMT, RAID, TPM 2.0, and Case Open. With multiple expansion slots and a durable design, they cater to many industrial automation tasks.

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