

Engineering Version Control Compact Design Solar Plant Controller
 Technical Support Flexible LAN/COM/Storage Expansion

Understand OEM Needs **Compatibility Assurance**

Autonomous Mobile Robots 75 Models Ready-to-use Data Acquisition Unit

Fast Response 10-year Longevity **Partnership** Rackmount

BESS Optimization **Why Moxa** Wi-Fi RAID

VESA Fan-less **BXP/DRP/RKP Series x86 IPCs** 3-year Warranty

TPM Security AI Edge Computing

Modular Design for Fast Customization Solar Tracking

Aggregation Computers Semiconductor Production **Proven Reliability**

Automated Fare Collection Maritime -30 to 60° C Operating Partial Discharge Detection

Your Trusted Partner in Automation

Moxa is a leading provider of edge connectivity, industrial computing, and network infrastructure solutions for enabling connectivity for the Industrial Internet of Things (IIoT). With 35 years of industry experience, Moxa has connected more than 102 million devices worldwide and has a distribution and service network that reaches customers in more than 85 countries. Moxa delivers lasting business value by empowering industries with reliable networks and sincere service. Information about Moxa's solutions is available at www.moxa.com.

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x86 IPC Solutions for Integration Excellence

BXP/DRP/RKP Series x86 Industrial Computers

A Proven Foundation for Reliable Long-term Systems

As IIoT data expands, computing solutions are essential for managing data collection, processing, and analysis to ensure seamless integration, precise diagnostics, and efficient digital operations.

Moxa's x86 IPC lineup offers a proven foundation for fast and flexible system integration, accelerated time to market, and reduced costs. Instead of starting from scratch, customers can leverage our off-the-shelf computing platforms and custom options to streamline system integration and data operations across disparate systems. To guarantee long-term reliability and durability, our x86 IPC lineup is designed and developed on strict reliability-based principles with extensive failure analysis, laying the foundation for continuous improvement.

With 75 models and a four-step selection process, customers can easily find the ideal solution that caters to their specific needs, from CPU performance to installation space and I/O interfaces. Moxa also offers extended warranties, long-term hardware availability, and continuous support to ensure systems remain compatible and future-ready, minimizing the need for frequent redesign.

Adaptable

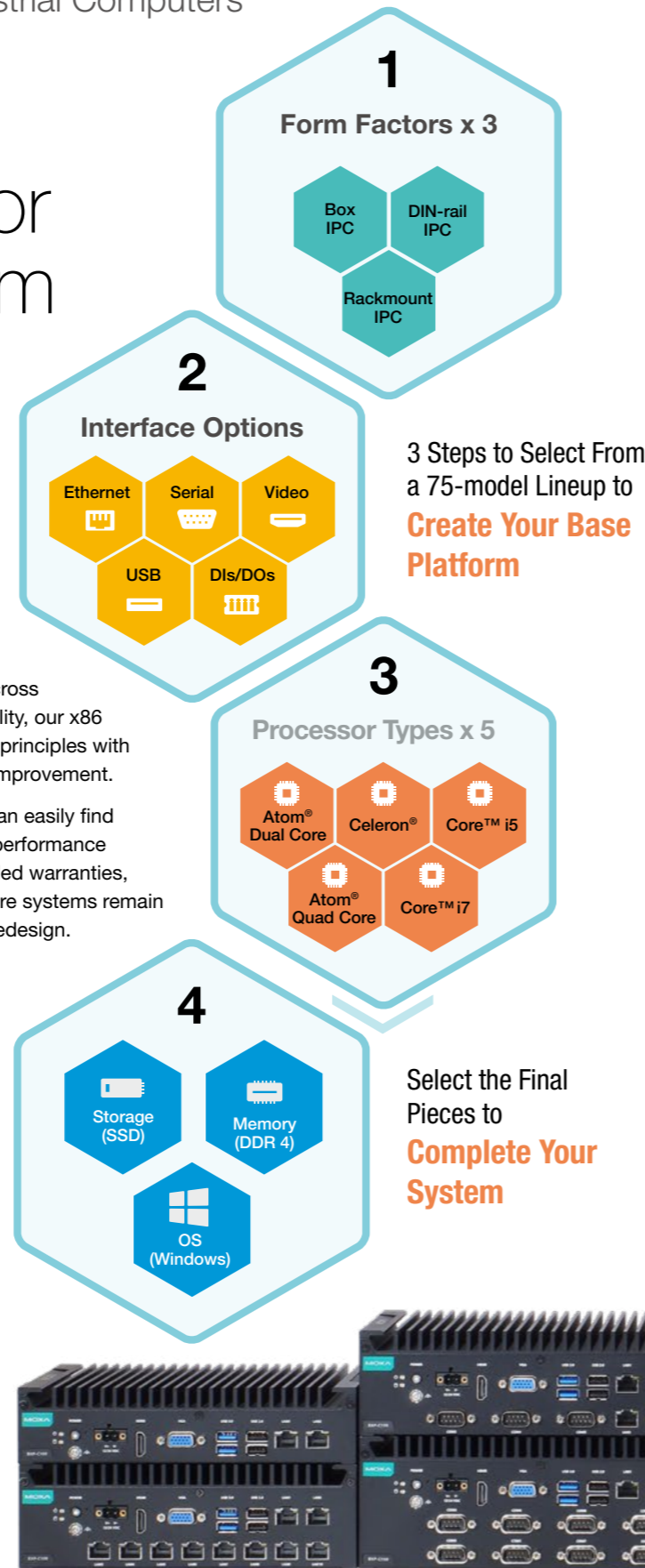
- Versatile portfolio meets most industrial-automation requirements
- Configure-to-order service (CTOS) for OS, memory, and storage
- 4 simple steps to identify a best fit

Customization Friendly

- Favorable customization criteria and service
- Modular design enables flexible customization
- Shorter prototyping and customization process

Reliable and Durable

- 3-year Moxa warranty for product quality
- 10-year product-longevity commitment
- Moxa's industry-renowned post-sales service



BXP Series Box Computing Platforms

RKP Series Rackmount Computing Platforms

DRP Series DIN-rail Computing Platforms

Case Study Collection

x86 IPC Solutions for Integration Excellence

Factory Automation

- Case 1 Custom IPCs for Upgrading Food and Beverage Machinery
- Case 2 Long-term Production Monitoring Solution for Semiconductors
- Case 3 Transform Steel Beveling With AI-powered Laser Cutting
- Case 4 Enabling the Next Era of Autonomous Mobile Robots

Power & Energy

- Case 5 Solar and Renewable Energy Monitoring and Control Solutions
- Case 6 Optimize Solar Output With Resilient Data-acquisition Computers
- Case 7 Optimize Local Energy Management With x86 IPC Solutions
- Case 8 Proactive Monitoring for Online Partial Discharge Detection

Industrial Automation

- Case 9 Durable Computer Solution for Automated Coal Sorting
- Case 10 Reliable POS Systems for Gas Stations

Transportation Automation

- Case 11 Leverage Data Insights to Optimize Ship Operations
- Case 12 Automated Fare-collection Systems for Metro Transit Systems

BXP/DRP/RKP Series Intel® Atom® / 11th Gen Core™ / Celeron® Powered Industrial Computers



Custom IPCs for Upgrading Food and Beverage Machinery

A production and packing quality solution provider needed a compact x86-based computer with flexible interfaces for Ethernet IP camera expansion to upgrade in-line inspection systems for their food and beverage production and packing machinery.

Why Moxa

- Compact modular design to accelerate custom deployments
- Expertise in x86 solutions for current and future systems
- Reliable solution with long-term support



BXP-C100 Series

Box Computers

- 11th Gen Intel® Core™ i7-1185G7E processor
- High-density of USB and Ethernet ports for connecting cameras
- Custom design for rapid system development and longevity

System Requirements

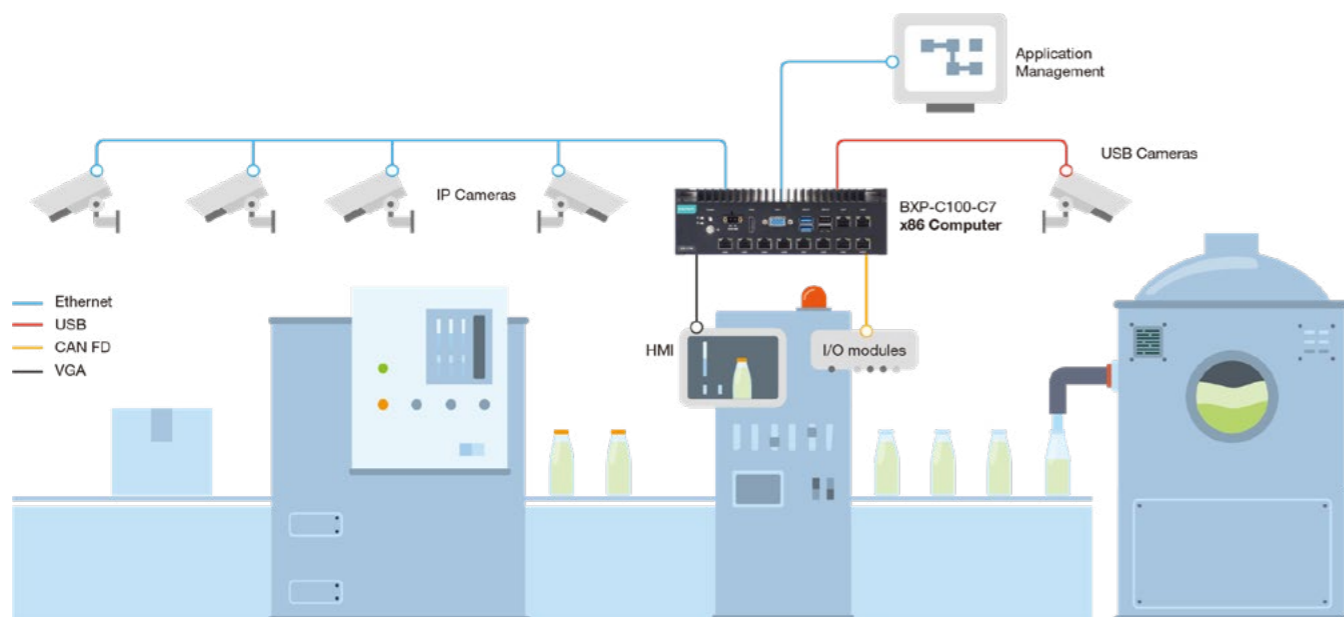
- Compact computers smaller than existing controllers
- Future-proof solutions for machine vision, data tracking, and networking
- Product durability and longevity

Moxa's Solution

The customer sought Moxa's expertise to upgrade their in-line inspection systems. Moxa used compact BXP-C100-C7 x86 computers to retrofit the system. The computers measure just 210 x 166 x 65.5 mm, making them ideal for embedding into machinery.

Powered by an Intel® Core™ i7-1185G7E processor, the custom BXP-C100-C7 computer supports HDMI and VGA displays, enabling high-performance computing with machine vision. Flexible camera connectivity with 6 USB 3.0 and 8 Ethernet ports allows users to easily switch between USB and Ethernet IP cameras. The compact custom BXP-C100-C7 computer also supports CAN FD (flexible data rate) communication to track I/O data from the server/responder side.

Moxa employed a modular architecture to rapidly implement the custom x86 solution. Backed by a 3-year warranty and 10-year longevity support, the BXP-C100-C7 computer guarantees reliable and future-proof performance in industrial environments.



Long-term Production Monitoring Solution for Semiconductors

A semiconductor equipment manufacturer aimed to integrate materials processing across multiple vacuum chambers. A compact robust computer was required in each chamber to precisely monitor and control process quality and uniformity.

Why Moxa

- Ready-to-deploy form factor
- High-performance solution with long-term supply and support
- Efficient management of engineering changes with customer preapproval and continuous notifications



BXP-A102 Series

Box Computers

- Intel® Atom® x7425E processor
- Form factor, storage, and connectivity tailored to customer needs
- Long-term supply with continuous engineering notifications

System Requirements

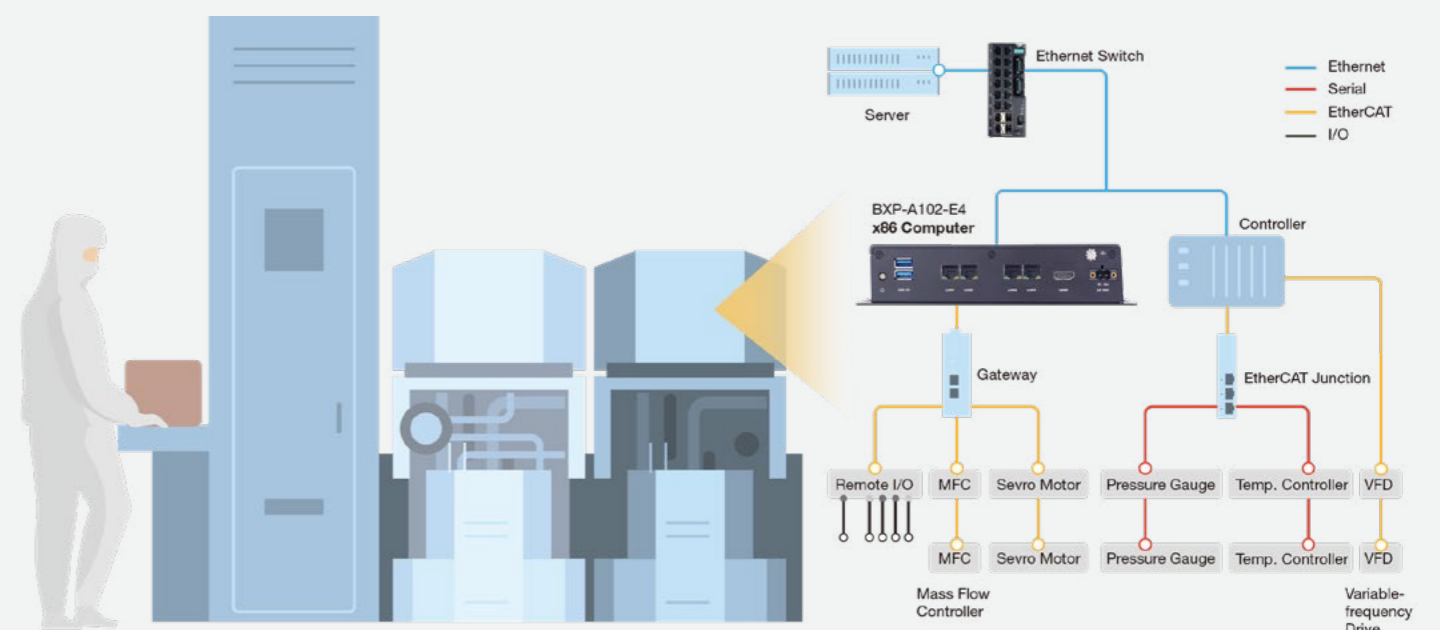
- Ready-to-use computing solution with suitable design and form factor
- High-performance solution with long-term availability and support
- Proactive management of engineering changes with notifications

Moxa's Solution

The BXP-A102-E4 x86 computers were deployed in each chamber to manage materials handling and integration through real-time data collection and communication with field devices.

Powered by an Intel® Atom® x7425E quad-core processor, the BXP-A102-E4 computer caters to specific real-time OS requirements while facilitating data communications and transfer. The ultra-compact computer comes in a ready-to-deploy form factor and offers a full set of features. Flexible mounting options, such as wall-mounting and VESA-mounting, save valuable installation time, space, and cost.

Besides custom development and deployment, our x86 team ensures long-term quality and reliability with precise product engineering, testing, and updates. For example, the BXP-A102-E4 computers use components with guaranteed longevity to ensure stable supply and reduce unexpected changes.





Transform Steel Beveling With AI-powered Laser Cutting

To comply with environmental, social, and governance (ESG) regulations and embrace digital transformation, a steel rolling plant sought to replace their traditional stamping-beveling machines with AI-integrated laser cutting systems. This transition aimed to achieve precise steel plate beveling while ensuring consistent quality and cost-efficiency.

Why Moxa

- Previous collaboration with Moxa in developing reliable solutions
- High-speed data processing to support AI models
- Multiple DC inputs and a wide operating temperature range for robust performance in harsh environments



RKP-C110 Series Rackmount Computers

- Intel® Core™ i7 1185G7E processor
- Rich set of I/O interfaces, interoperability for seamless connectivity
- Functions that enhance product reliability for durable field operations

System Requirements

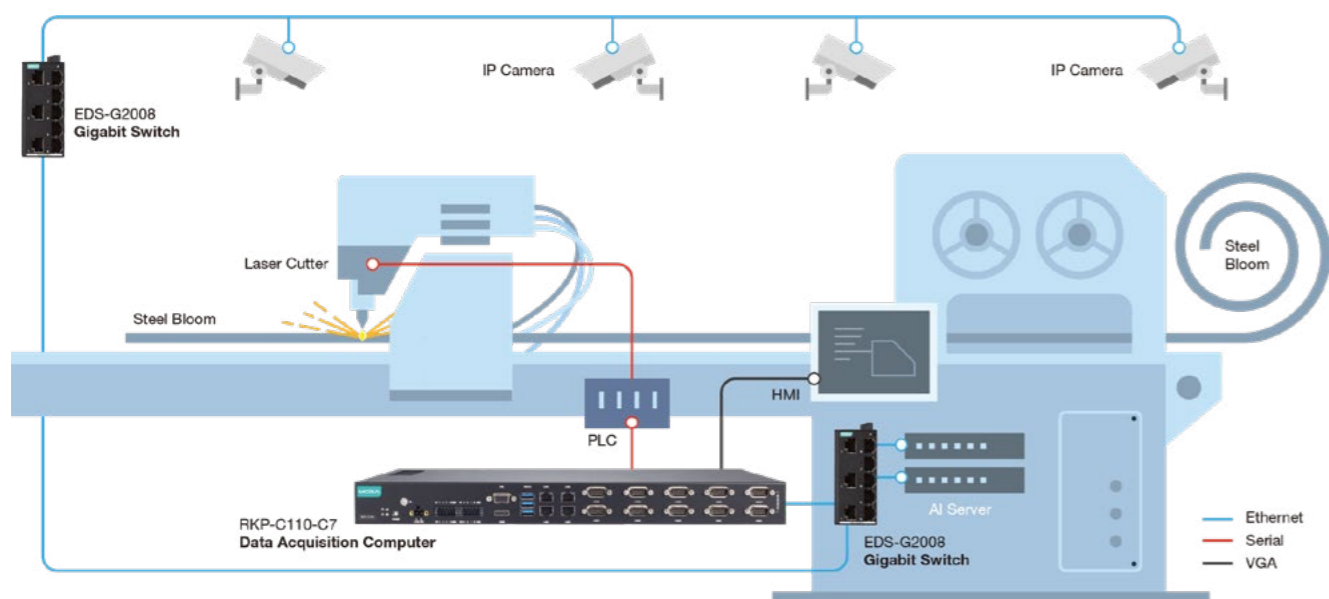
- High-speed edge computing to support AI image recognition
- Seamless integration and communication with field equipment
- Robust product that can withstand the harsh environment of steel rolling plants

Moxa's Solution

The AI-driven laser bevel cutting process relies on intensive data feeding, learning, and precise programming to deliver exceptional accuracy and smooth steel edges. The plant combined AI algorithms and high-speed computing solutions to optimize the beveling process through laser cutting for consistent precision and quality of steel plate production.

The RKP-C110-C7 rackmount computer, powered by an Intel® Core™ i7-1185G7E, provides high-speed data acquisition for stable and accurate AI operations. The computer's reliable data storage and transfer capabilities support AI servers in training models, optimizing cutting parameters and automating the beveling processes from start to finish.

Coupled with 8-port full Gigabit EDS-G2008 switches, the RKP-C110-C7 facilitates seamless connectivity for field data integration. Both devices support 12/24 VDC inputs and wide operating temperature ranges to ensure reliability and durability in harsh manufacturing environments.



Enabling the Next Era of Autonomous Mobile Robots

An industrial automation and robotics provider has elevated the capabilities of their autonomous mobile robot (AMR) by integrating Moxa's x86 Industrial PCs. This strategic partnership has resulted in the development of compact, intelligent, and durable AMRs, designed to optimize modern warehouse and logistics operations.

Why Moxa

- High-speed, low-power computing
- Compact design and flexible connectivity for adaptive AMR integration and upgrades
- Reliable products with 3-year warranty for longevity of the system



DRP-C100 Series DIN-rail Computers

- Intel® Core® i5-1145G7E processor
- Versatile interfaces to support networking, device connectivity, storage, and expansion needs
- Robust and reliable with high EMC and resistance to EMI

System Requirements

- High speed, low-power computing for real-time data processing
- Reliable performance in harsh industrial and mobile environments
- Small footprint with support for battery-powered operations

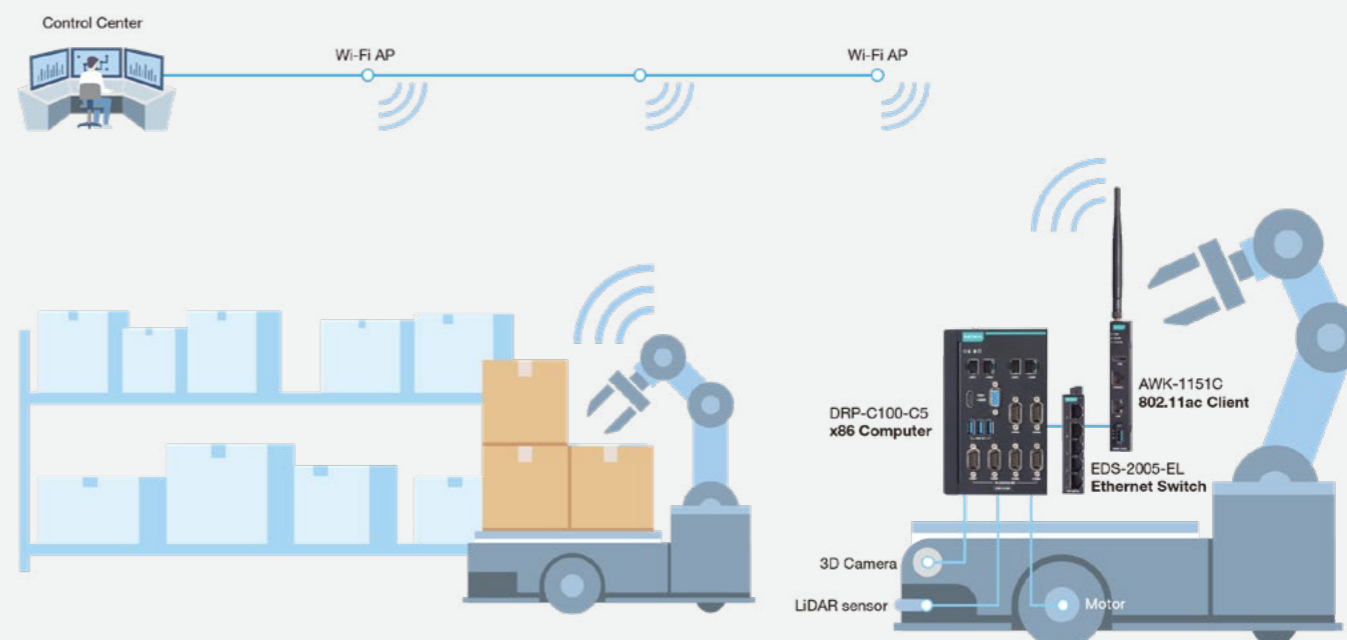
Moxa's Solution

Leveraging Intel® Core™ i5-1145G7E-powered DRP-C100-C5 x86 IPCs, the new-generation LiDAR* SLAM** AMRs can navigate complex factory environments with precision. By processing LiDAR sensor data in real time, the new-generation AMRs can accurately identify obstacles and adjust their routes without relying on ground tracking infrastructure.

The DRP-C100-C5 IPCs provide a ready-to-use platform for integrating robotic arms, LiDAR sensors, Wi-Fi/LTE devices, cameras, motors, and ultrasound sensors. With 4 LAN ports, 6 COM ports, multiple storage slots, and a mPCIe expansion slot, the DRP-C100-C5 enables seamless integration of diverse equipment in compact AMR enclosures, supporting a range of AMR solutions to meet customer needs.

Built for battery-powered AMR operations in rugged environments, Moxa's x86 IPCs are designed to endure vibration and extreme temperatures while consuming only 50 W. High EMC and EMI resistance ensure stable performance in harsh industrial conditions.

*LiDAR Light Detection and Ranging
**SLAM Simultaneous Localization and Mapping



Solar and Renewable Energy Monitoring and Control Solutions

A leading digital solutions provider offers comprehensive operation and management solutions for renewable energy plants. Integrating robust computing network infrastructure with software-based management, the solutions provider helps global customers transition to sustainable energy sources.

Why Moxa

- Compact, high-performance computing solutions
- Reliable product quality and long-term partnerships for solution development and delivery
- One-stop solution that integrates computers, Ethernet I/O devices, and switches



DRP-A100 Series

DIN-rail Computers

- Versatile interfaces including 2 LAN, 2 COM, and 3 USB ports
- Wide operating temperature range from -30 to 70°C*
- Compact DIN-rail design for easy installation

*Wide-temperature model is only by request

System Requirements

- High-performance IPCs for centralized monitoring and control of solar farms
- Long-term product support and service
- Rugged product for harsh operating environments

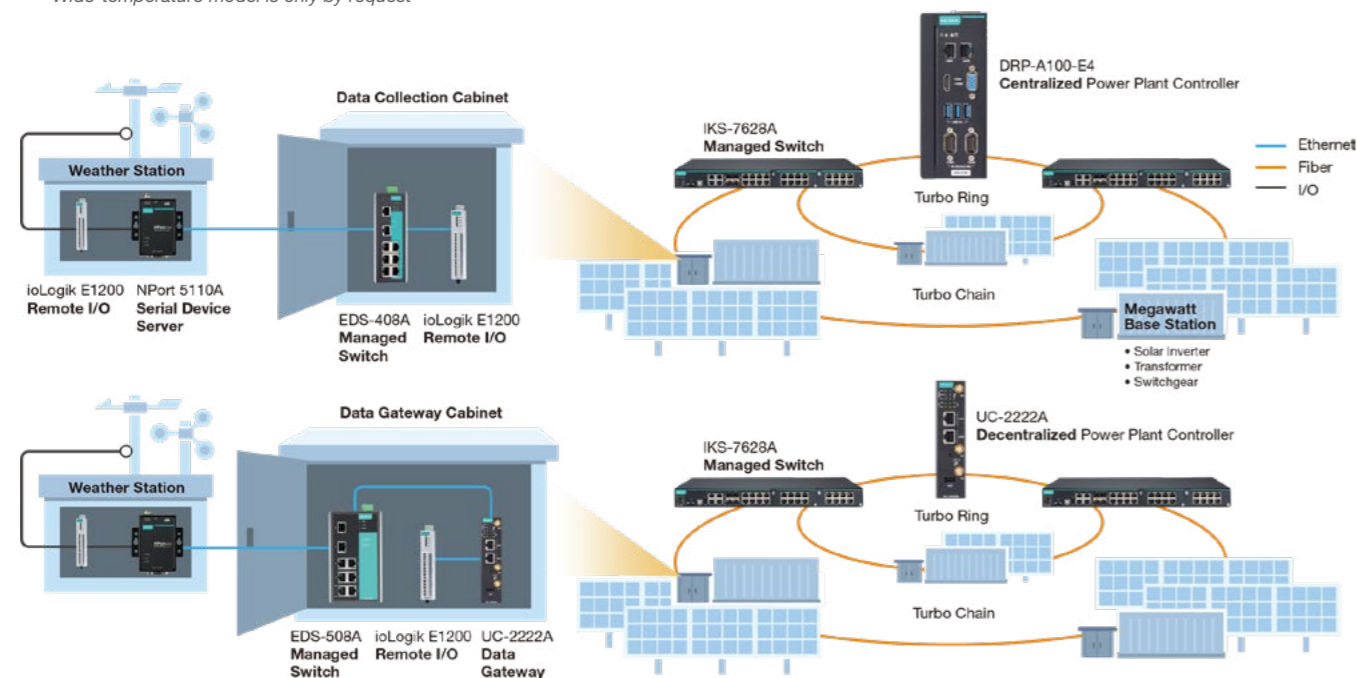
Moxa's Solution

The solution provider integrates solar inverters with renewable-energy assets and other field devices to deliver sustainable energy management solutions. A centralized energy management system was developed for managing diverse energy needs and to supplement the existing decentralized system.

Moxa's DRP-A100-E4 x86 computers were chosen as field power plant controllers (PPCs) for overall management, control, and communication along with monitoring of various inverters and energy storage systems.

The DRP-A100-E4 computer comes with Intel Atom® Elkhart Lake processor and versatile LAN, COM, and display interfaces to meet the diverse needs of renewable-energy plants.

Designed for harsh outdoor environments, the DIN-rail mountable DRP-A100-E4 PPCs operate in the -30 to 70°C temperature range and come with a 3-year warranty and 10-year longevity guarantee, ensuring durability, efficiency, and sustainability of energy-management solutions.



Why Moxa

- Reliable RAID 1 data mirroring to enhance the performance of machine-learning models
- Dual power supplies for redundancy with no additional adapters needed
- Adaptable to complex software environments and long-term operational requirements



RKP-C110 Series Rackmount Computers

- Intel® Core™ i7 1185G7E processor
- Built-in dual 110 to 240 VDC/VAC power supplies
- Linux driver support for Debian, Ubuntu, and RHEL distributions

Optimize Solar Output With Resilient Data-acquisition Computers

A solar energy tracking solutions expert sought a reliable data-acquisition computer to power their machine-learning models that optimize PV energy output for their customers.

System Requirements

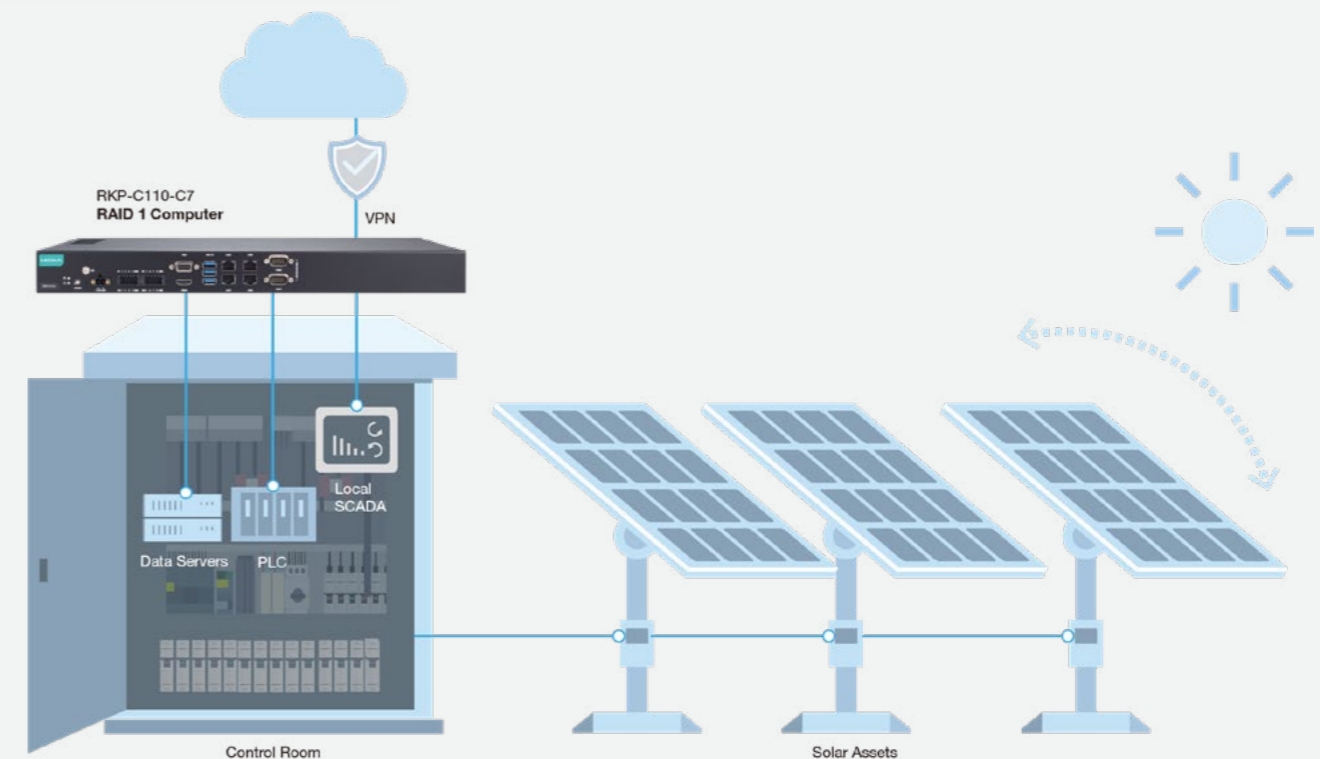
- Redundant high-voltage power supplies
- High-capacity RAID storage for data protection
- Product longevity and software compatibility

Moxa's Solution

RKP-C110-C7 rackmount computers were integrated into the solar energy tracking and control system. The computers offer RAID 1 disk mirroring and dual power modules to enhance data reliability and redundancy for critical data acquisition and storage, even in the event of disk failure or power outage.

The RKP-C110-C7 computers connect to the local data servers and PLCs and enhance the local data storage redundancy with their dual 256 GB SSDs for added reliability. With this, essential operational data—such as solar panel positioning, actuator performance, and environmental conditions—can be securely stored and readily accessed for real-time monitoring as well as future diagnostics.

With dual 110 to 240 VDC/VAC power modules, the RKP-C110-C7 can seamlessly switch to a backup UPS during power disruptions to prevent data loss. The computers also support versatile drivers for multiple Linux distributions, ensuring easy integration with various solar tracker systems and infrastructure, enabling flexible integration and long-term operations.





Optimize Local Energy Management With x86 IPC Solutions

As risks of power instability and peak-valley price differences continue to increase, global demand for distributed energy storage is seeing an upward trend. A leading energy solutions provider developed cutting-edge industrial and commercial energy storage solutions powered by Moxa's x86 IPCs to optimize their local energy management system (LEMS).

Why Moxa

- One-stop shop for future-proof computing and communication solutions
- Robust features and guaranteed quality to ensure BESS stability
- Diverse global certifications for deployment in different regions



BXP-A101 Series

Box Computers

- Intel Atom® x6425E processor
- Versatile communication options with 2 LAN, 2 COM, and 4G cellular interfaces
- Fanless design with -30 to 60°C operating temperature range

System Requirements

- Durable and reliable x86 computers for Battery Energy Storage System (BESS) operations
- Support for versatile wired and wireless communication
- Product longevity

Moxa's Solution

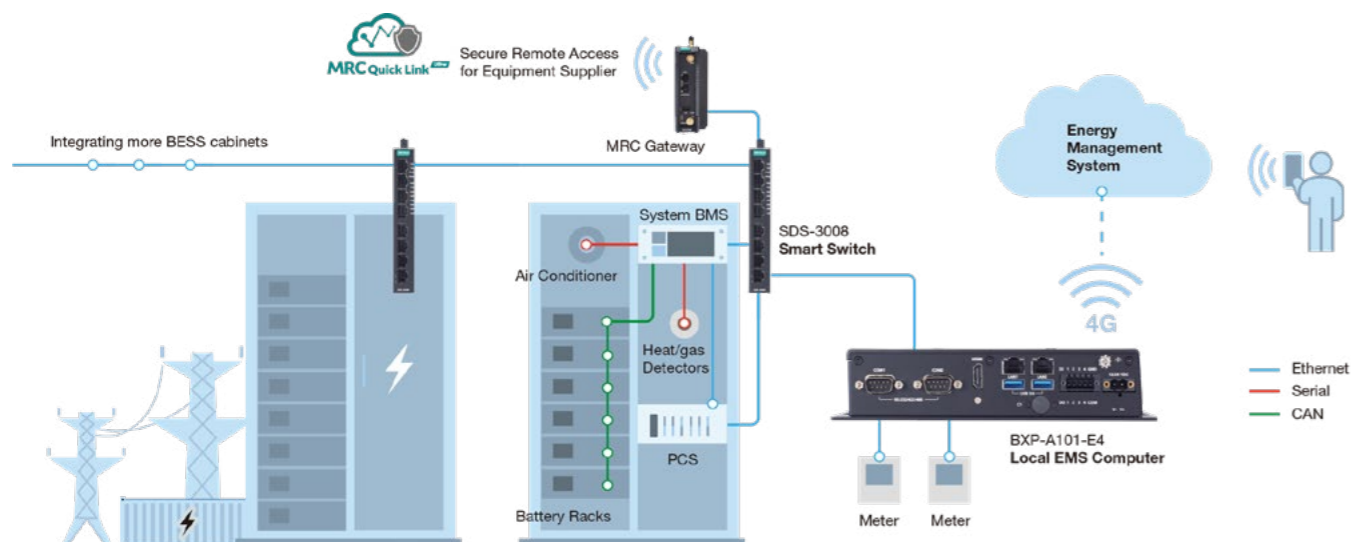
Leveraging the solution provider's industry expertise, BXP-A101-E4 industrial computers were deployed as the local EMS for cabinet-pack BESS solutions to help transform small and distributed systems into an integrated and sustainable digital solution for the future.

With versatile connectivity and 4G cellular capabilities, the BXP-A101-E4 offers an open edge data platform that integrates crucial data from the BMS*, PCS*, and EMSU* to facilitate real-time data exchange between BESS systems and cloud applications. This seamless cloud-edge integration improves decision-making for charging, discharging, and energy storage operations.

As part of this modular BESS architecture, the BXP-A101-E4 supports seamless integration with multiple energy storage cabinets via SDS-3008 8-port smart switches, allowing for easy adaptation to evolving energy needs. In addition, the BESS solution includes Moxa's MRC* gateway and services to offer secure remote access for equipment diagnosis and maintenance.

The BXP-A101-E4 computer, SDS-3008 switch, and OnCell G4302-LTE4 MRC gateway are built to endure extreme temperature fluctuations and are certified for global standards such as CE, FCC, and UL. Moxa's product longevity commitment further ensures compliance with safety standards, making them available globally.

**Note: BMS stands for Battery Management System, PCS for Power Conversion System, EMSU for Environmental Monitoring and Surveillance Unit, and MRC for Moxa Remote Connectivity.*



Proactive Monitoring for Online Partial Discharge Detection

A major power company integrated Moxa's x86 computers into their underground cable partial discharge (PD) detection system to ensure early detection of insulation degradation with the goal of proactive cable maintenance to prevent electrical failures.

Why Moxa

- High-performance products backed by a 3-year warranty
- Space-saving design with flexible installation options
- Prompt support for project needs and engineering inquiries



BXP-C100 Series

Box Computers

- Intel® Celeron® 6305E processor
- Available with wall-mounting kit and multiple power supply options
- Compact design and reliable operations in the -30 to 60°C temperature range

System Requirements

- Compact design to fit in space-limited cabinets
- High-performance data processing capabilities
- Reliable operations under extreme temperature fluctuations

Moxa's Solution

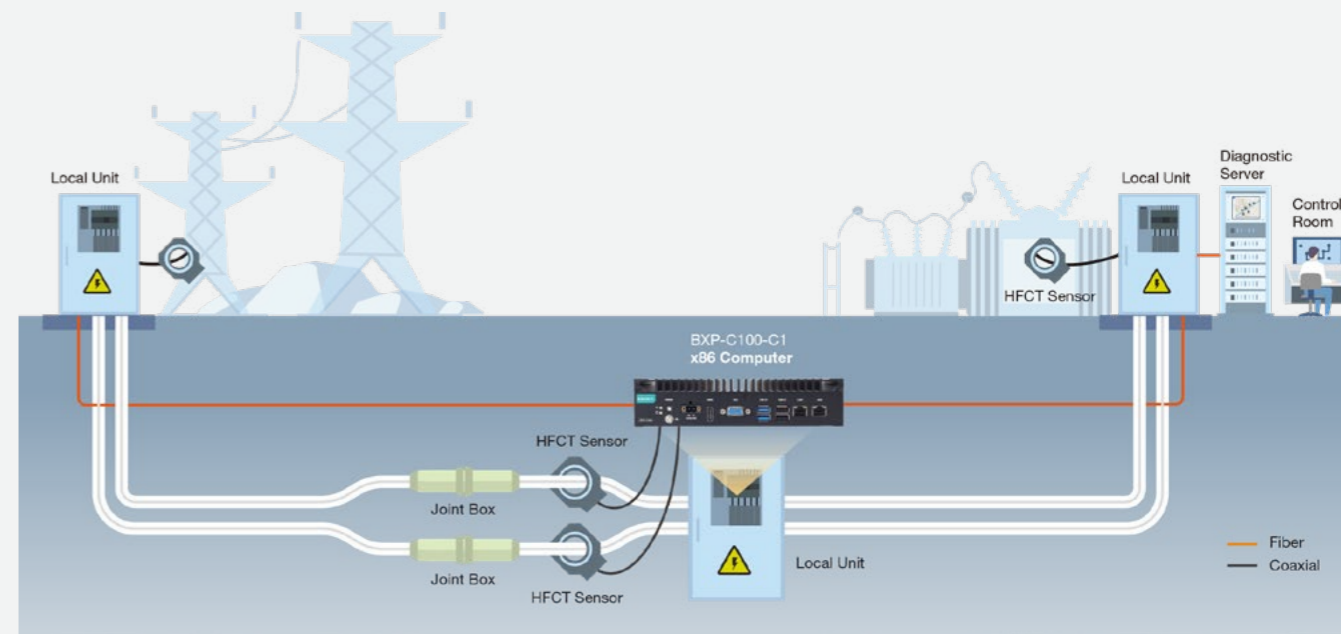
To detect subtle partial discharges in underground cables, the compact BXP-C100-C1 IPCs were deployed in local unit (LU) cabinets for high-speed data aggregation and preprocessing.

Powered by an Intel® Celeron® 6305E processor, BXP-C100-C1 computers monitor PD activity through HFCT* sensors at critical cable junctions and grounding points, including EBGs*, EBAs*, and JBs*. These high-performance LUs enable the central PD diagnostic server with real-time monitoring, accurately identifying potential insulation faults while minimizing incorrect detections.

The BXP-C100-C1 comes in a fanless, compact (210 x 166 x 48 mm) form factor. Versatile connectivity options and wall-mounting capability enable seamless integration and easy deployment in space-constrained LU environments.

Built to endure harsh operating environments, the BXP-C100-C1 has been rigorously tested to operate in the -30 to 60°C temperature range and delivers dependable PD detection against daily and seasonal temperature shifts, reducing maintenance costs and enhancing safety.

**EBG stands for End Box Gas, EBA for End Box Air, JB for Joint Boxes, HFCT for High Frequency Current Transformer.*





Durable Computer Solution for Automated Coal Sorting

An industrial solutions provider implemented an automated coal sample sorting system that can convey and screen coal samples for subsequent sorting and testing. The system builder sought a reliable x86 computing solution to enhance sorting performance while reducing maintenance requirements.

Why Moxa

- Quality and reliability from design to delivery
- User-centric hardware and software features for easy installation and maintenance
- Long-term support



BXP-C100 Series Box Computers

- 11th Gen Intel® Core™ i7 processor
- 2 COM and 2 LAN ports, and multiple DIO interfaces
- Industrial-grade reliability

System Requirements

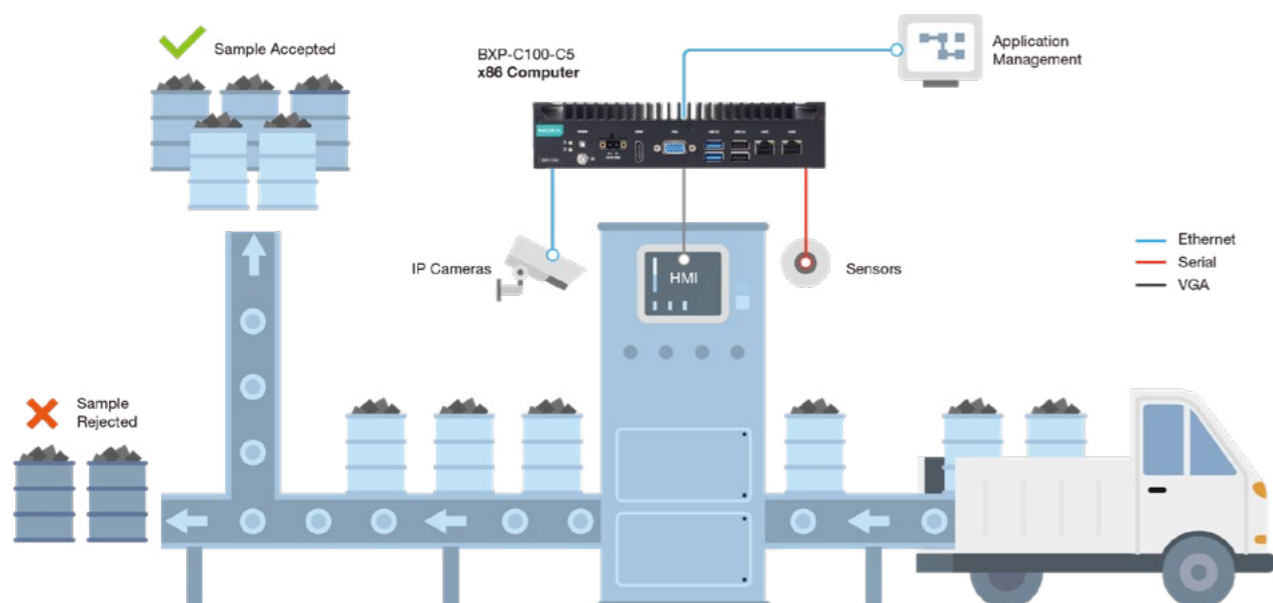
- Reliable operations and durability in coal preparation plants
- Support for seamless system integration
- Easy troubleshooting

Moxa's Solution

The compact BXP-C100-C5 box computer was selected to drive the coal sorting system, supporting high-definition cameras, sensors, and real-time image recognition in a dust-filled environment.

The fanless BXP-C100-C5 can operate in a wide temperature range and has a high MTBF, ensuring reliable performance in harsh environments filled with dust. Powered by an Intel® Core™ i5 processor, the BXP-C100-C5 can integrate with intelligent image processing and sensing systems for effective coal sorting.

The compact design, versatile connectivity, and user-friendly configuration features of the computer coupled with our skillful technical staff was able to deliver an integrated system with the least effort. The BXP-C100-C5 includes a 3-year warranty to minimize maintenance costs and risks, while the 10-year longevity commitment ensures the sorting system is future-proof.



Reliable POS Systems for Gas Stations

POS systems are critical for gas stations to maintain continuous operations. A state-owned gas-station operator wanted to retrofit their POS systems to enable seamless operations and reduce the time required for troubleshooting issues.

Why Moxa

- Complete know-how of system needs for gas-station environments
- Compact design and a rich set of interfaces to meet POS system requirements
- Fanless design and sealed enclosure to reduce system failure and maintenance costs



BXP-C100 Series Box Computers

- 11th Gen Intel® Core™ i5 processor
- Rich interface options for up to 10 LAN and 10 COM ports
- Compact design for easy installation

System Requirements

- Sufficient COM ports to connect to various types of equipment
- Reliable operations with reduced unplanned maintenance
- Compact computers that can be installed inside POS terminals

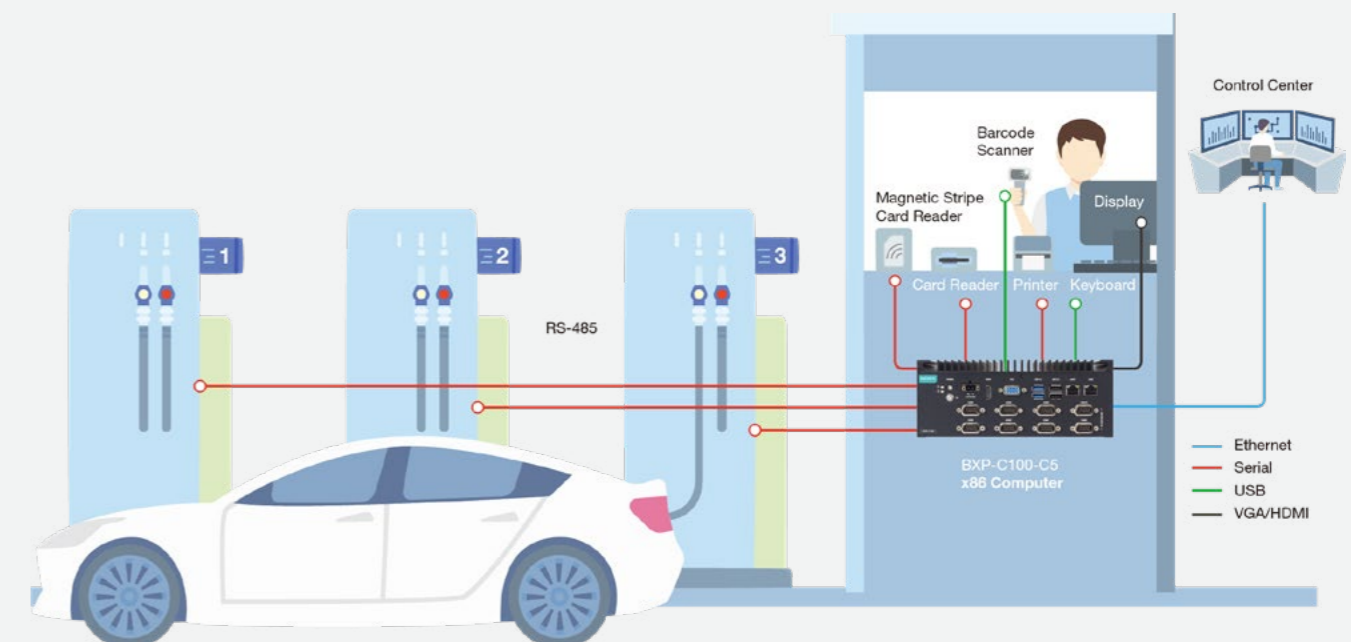
Moxa's Solution

A gas station POS terminal system needs to connect to a variety of equipment for vehicle refueling and payment processing. Unplanned downtime at POS systems can disrupt operations leading to loss of revenue. A gas station operator selected Moxa's BXP-C100-C5 computers to improve reliability and efficiency in gas station operations.

Measuring 210 x 166 x 83 mm, the BXP-C100-C5 box computers offer a wide array of communication interfaces for connections to fuel dispensers, card readers, barcode scanners, keyboard, mouse, printer, and display. A prominent durable power button eases every-day on/off operations.

The fanless design of the BXP-C100-C5 reduces the risk of mechanical failure while the sealed enclosure prevents dust, dirt, and airborne particles from entering and contaminating internal components, ensuring overall system stability and reliability.

An Intel® Core™ i5 CPU supports high-speed data processing in an operating temperature range of -30 to 60°C. The computer comes with a 3-year warranty for reliable operations and reduced maintenance costs.





Leverage Data Insights to Optimize Ship Operations

A solutions provider sought maritime computers for data collection systems (DCS) to enhance situational awareness, safety, and operational control of ships. For critical maritime applications, field-proven reliability and security are essential for efficient maritime operations and safe voyages.

Why Moxa

- Versatile connectivity options with LAN, COM, and display interfaces
- Proven expertise in maritime computing and networking infrastructure
- Compliance with maritime standards ensures product durability and quality



BXP-C100 Series

Box Computers

- 11th Gen Intel® Core™ i7 processor
- Rich set of interfaces up to 10 COM, 10 LAN, and 6 USB ports
- Compliance with IEC 60945 and IACS E10 standards*

*Certifications available in Q1, 2025.

System Requirements

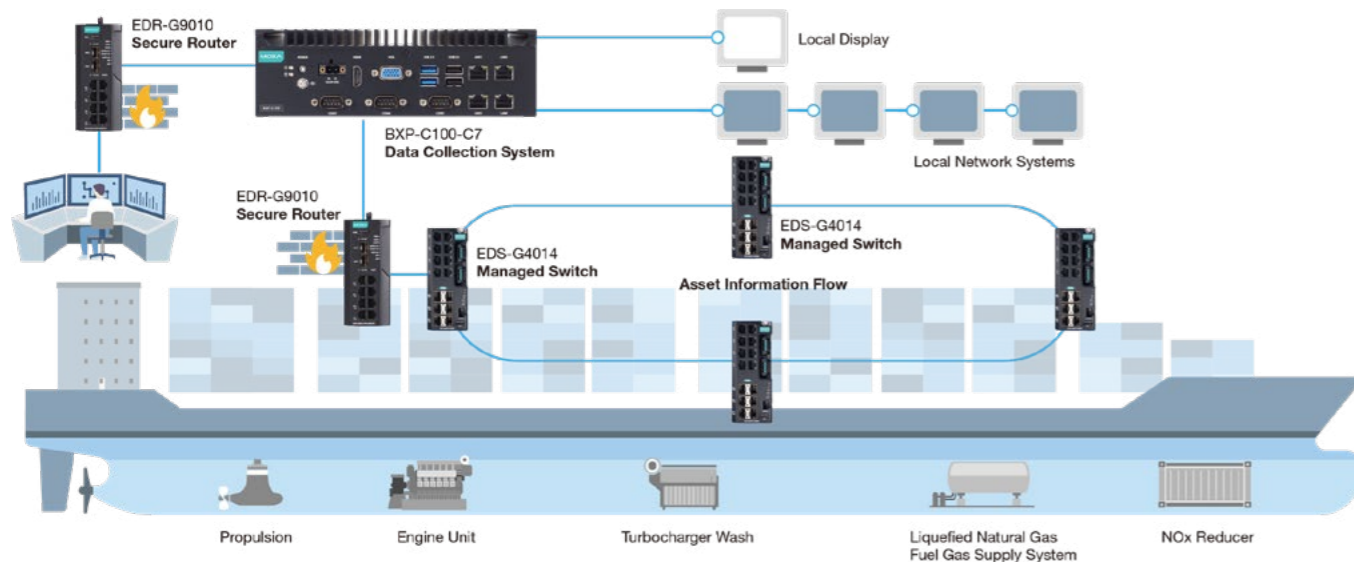
- Maritime-certified high-performance computers
- Compact design for installation in cabinets
- Reliability and durability in harsh maritime environments

Moxa's Solution

The fanless BXP-C100-C7 industrial computers, featuring Intel® Core™ i7 processor and externally accessible storage, serve as data collection conduits to gather and process high volumes of data from ship sensors and machinery. The DCS computers then transmit processed data to advanced SCADA and cloud systems for efficient data analysis and decision-making, enabling optimization of operations, fuel efficiency, and maintenance.

The BXP-C100-C7 computers comply with IEC 60945 and IACS-E10 standards* to ensure operational reliability, durability, and safety in maritime environments where EMI, vibration, shock, and temperature fluctuations are common.

The compact form factor (210 x 166 x 48 to 83 mm) of the box-type BXP-C100-C7 computers is perfect for installation in data-collection cabinets. Networking with Moxa's EDR-G9010 secure routers and EDS-G4014 Ethernet switches, the BXP-C100-C7 DCS computers ensure seamless and efficient data communication for digital maritime applications.



Automated Fare-collection Systems for Metro Transit Systems

Banking on their long-term partnership with Moxa, a metro rail company in Asia contacted Moxa for computing solutions to retrofit their automated fare collection (AFC) system for improving system flexibility and reliability at busy metro stations.

Why Moxa

- Proven expertise in deploying and integrating automated fare collection systems for the long term
- Enhanced system durability against frequent program/erase (P/E) cycles on the storage
- Product reliability and quality to withstand harsh operating temperatures



BXP-A100 Series

Box Computers

- 18 COM, 2 LAN, and 6 USB ports
- -30 to 60°C operating temperature range
- Customization-friendly platform with preinstalled high-performance SSD to ensure system durability

System Requirements

- Reliable computing solutions for automated gates (AG), token-vending system, and card-vending system
- Improved storage rewrite endurance to extend component lifespan
- Product reliability and quality for operational stability

Moxa's Solution

In line with customer's requirement for long-term solutions that can integrate more systems and payment options, Moxa proposed a comprehensive computing platform with 18 COM ports that can meet all their requirements instead of just selling them three different computing solutions.

A customized BXP-A100-E2 box computer provides 18 serial ports, enabling connection flexibility above and beyond the current requirement for automated gates, token issuing machines (TIMs), and card-vending and add-value machines (VAVMs), thereby simplifying spares inventory and management.

To deal with a high volume of passengers who swipe cards or tokens daily to enter and exit stations, the BXP-A100-E2 computer supports 100,000 program/erase (P/E) cycles on a high-performance built-in SSD, thereby enhancing the endurance capability of the storage.

To cope with diverse operating environments and conditions at the metro stations, the BXP-A100-E2 computer comes with a fanless and unique heat-dissipation design to support operations at temperatures -30 to 60°C for long-term stability and reduced maintenance costs.

