MOXA®

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 over 35 years of industry experience, Moxa has connected more than 111 million devices worldwide and has a distribution and service network that reaches customers in more than 91 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.

Colterlec

Newcastle
8 Rosegum Road
Warabrook NSW 2304
1300 36 26 26
sales@colterlec.com.au

Sydney
1/48 Anderson Road
Smeaton Grange NSW 2567
1300 36 26 26
sales@colterlec.com.au

Wollongong
1/222 Berkeley Road
Unanderra NSW 2526
1300 36 26 26
sales@colterlec.com.au

Melbourne
7/7 Dalton Road
Thomastown VIC 3074
1300 36 26 26
sales@colterlec.com.au

Brisbane
36 Bell Are Avenue
Northgate QLD 4013
1300 36 26 26
sales@colterlec.com.au

Adelaide
5 Star Avenue
Dudley Park SA 5008
1300 36 26 26
sales@colterlec.com.au

Perth
7 Focal Way
Bayswater WA 6053
1300 36 26 26
sales@colterlec.com.au

COLTERLEC™

For more information
Call 1300 36 26 26 | sales@colterlec.com.au | www.colterlec.com.au

DISTRIBUTED BY COLTERLEC™

MOXA®

Power a Secure Edge With Our Arm-based Solutions

Reliable wireless computers with Moxa Industrial Linux for trusted deployments


UC-4400A Series


UC-3400A Sereis


UC-2200A Series


UC-1200A Series


UC-8200 Series

MIL
Moxa Industrial Linux

www.moxa.com

Master Your IIoT Operations for Easy Integration to Scalable Success at the Edge

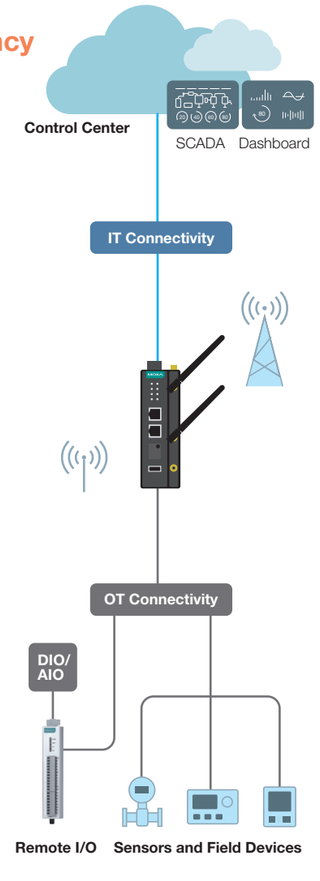
Industrial IoT (IIoT) adoption is accelerating as organizations seek to increase productivity, enable real-time monitoring, increase production precision, and reduce operational costs. But as edge deployments expand, so do the challenges with complex software developments, managing distributed devices, ensuring operation reliability, and securing critical infrastructure.

Moxa's UC Series Arm-based computers with Moxa Industrial Linux (MIL) are engineered to meet these challenges head on. Entrust us with complex system building from hardware integration to software security, so you can focus on what matters most—application development.

Designed for harsh and distributed environments, the UC Series platforms are ideal for remote and distributed outdoor IIoT applications, including those in distributed energy, oil and gas, and industrial automation.

Reliable Wireless Computers, Maximize Operational Efficiency

- Rugged hardware with RF and industry certifications
- Crash-free failover filesystem
- Built-in network connection keep-alive with intelligent failover



Secure and Compliant by Design Platforms, Protect Your Assets

- World's first IEC 62443-4-2 Security Level 2 certified IPCs*
- At least 6 months of savings on development efforts with our security-compliance compliant portfolio
- 10-year long-term OS support reduce costs of security updates and maintenance

*UC-8200 Series with MIL3 Secure

Easy Development Platform, Accelerating Application's Time-to-market

- Debian-based OS for effortless migration of Ubuntu and Raspberry Pi applications
- Simplified network configuration and setup with Moxa Connection Manager
- Effortless batch provisioning of devices with Moxa Swift

Accelerate Your Industrial Edge Development

Built-in security and ready-to-deploy Linux systems with long-term support enhance reliability and accelerate edge development

Our Arm-based platform is your ready-to-deploy foundation for the industrial edge that combines certified computing platform, a secure OS with long-term support, and built-in management tools. This means less complexity, faster deployment, and greater confidence to scale up your solution. Just focus on your application and let Moxa handle complex system integrations.

Debian-compatible Application

Python & Web Development | Monitoring & Alert | Data Management | Container & Docker

> Easy Development

Wireless Connectivity
Moxa Connection Manager

System Recovery
Moxa System Manager

Interface Management
Moxa Computer Interface Manager

Device Management
Moxa Swift & DLM

Software Update
Moxa Software Updater

Security
Moxa Guardian

> Secure OS

MIL
Moxa Industrial Linux

- Compliance with IEC 62443-4-2 Security Level 2 requirements

Moxa Industrial Linux
Debian-based Linux distribution

- 10-year long-term support
- Hardware Root-of-trust Secure Boot

> Reliable Computers

Wireless-ready & RF certification | Hazardous location certifications | 5-year product warranty | Wide operating temperature range

UC Series 64-bit Arm-based Computers

Wireless-ready Arm-based Computers for Uninterrupted Connectivity

Moxa UC Series edge computing platforms, featuring quad-core processors, dual wireless capabilities, and global RF, ATEX, and CID2 certifications, deliver reliable performance in hazardous environments.

5G/Wi-Fi 6E/LTE Certified Arm-based Computers

UC-4400A, UC-3400A, UC-2200A, UC-1200A, UC-8200 Series

	UC-4400A	UC-3400A	UC-2200A	UC-1200A	UC-8200
Wireless Feature	Built-in 5G LTE, Bluetooth and Wi-Fi 6E support for 5G models	Built-in 4G LTE, Bluetooth and Wi-Fi 6 support for LTE/Wi-Fi models	Built-in 4G LTE or mPCIe slot for Wi-Fi modules	---	Built-in 4G LTE, mPCIe slot for Wi-Fi modules
CPU	Arm Cortex-A53, quad core, 1.6 GHz	Arm Cortex-A53, quad core, 1.4 GHz	Arm Cortex-A53, dual core, 1 GHz		Arm Cortex-A7, dual core, 1 GHz
Memory	4 GB DDR4	4 GB DDR4	2 GB DDR4		
Storage Pre-installed	16 GB eMMC				8 GB eMMC
Interfaces	2 LAN, Up to 4 RS-232/422/485 (2-kV isolation on 2 ports), Up to 2 CAN, 4 DIs, 4 DOs, 1 USB	2 LAN, 2 RS-232/422/485, Up to 2 CAN, 1 USB	2 LAN, 2 RS-232/422/485, 1 USB		2 LAN, 2 RS-232/422/485, 1 CAN, 4 DIs, 4 DOs, 1 USB
International Approval	CE (RED), FCC, UL, ISED, UKCA, RCM, NCC, KC (EMC), BSMI	CE (RED), FCC, UL, ISED, UKCA, RCM, NCC, TELEC	CE (RED), FCC, UL, ISED, UKCA, RCM, NCC, KC (EMC), BSMI, TELEC	CE, FCC, UL, ISED, UKCA, RCM, KC, BSMI	CE (RED), FCC, UL, ISED, UKCA, RCM, NCC, BSMI, BIS
Carrier Approval	AT&T, Verizon*, PTCRB *Certification expected by around Q3, 2025	AT&T, Verizon, PTCRB		---	AT&T, Verizon, PTCRB
Hazardous Location Certifications	Upon request	CID2, ATEX Zone 2			
IEC 62443-4-2 Security Level 2	Compliance				Certified

Debian-based Linux Distribution

Moxa Industrial Linux (MIL)

When you choose Moxa, you're not just buying an industrial computer but also MIL. You're investing in a proven, secure, and TCO-optimized industrial-grade solution. We clear the technical hurdles, allowing you to focus on innovating your core business and a stable, long-term return on your investment.

Accelerate Project Development With our Easy-to-use Platform

Planning → **Deployment** → **Operation** → **Maintenance & Update**

Accelerate Development

Software Developer

- Easy management of LTE/Wi-Fi interfaces with auto-failover via GUI-based **Moxa Connection Manager**
- Manage cross-platform computer interfaces with **Moxa Computer Interface Manager**
- Check for security compliance with **Moxa Guardian**

Faster Mass Deployment

System Integrator (SI)

- Mass device provisioning with **Moxa Swift**
- Over-the-air (OTA) software deployment via **Moxa DLM**

Maximize Uptime & Security

Asset Owner

- **Crash-free filesystem** for stable operations
- Maximize availability with **auto recovery**
- Safeguard devices with **Secure Boot** and **disk encryption**

Reduce Maintenance Costs

System Maintainer

- Up-to-date security with **10-year MIL** security updates and bug fixes
- Update MIL online or offline via **Moxa Software Updater**
- Remote monitor, update, and troubleshoot with **Moxa DLM**
- Perform periodic system backup and snapshot with **Moxa System Manager**

Moxa Industrial Linux—Key Benefits

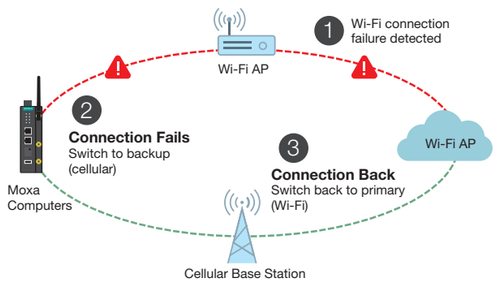
	Moxa Arm IPCs With MIL	Arm IPCs With Ubuntu	Raspberry Pi	Arm IPCs With Yocto
Development Complexity	**Easy Management** • Easy LTE/Wi-Fi/Ethernet management & auto-failover via GUI-based tool • Unified CLI to manage non-standard I/O in multiple Moxa computers	**Hard** • Require kernel tuning for stability and performance • No unified I/O & network management tool; setup is complex		**Hardest** • Complexity due to custom configurations; requires manual management
Operational Risks & Stability	**High Stability** • Crash-free overlay filesystem design protects data during power loss • Auto recovery with overlay filesystem design	**Low Stability** • Traditional filesystem (ext4) with medium resistance to power loss • Boot failure requires manual intervention via recovery mode		**Lowest Stability** • Reliability depends on developer expertise and implementation quality
Cybersecurity & Compliance Costs	**Lowest Compliance Cost** • Developed based on the IEC 62443-4-1 certified product development life cycle process • Low cost to achieve IEC 62443-4-2 SL2 compliance*	**High Compliance Cost** • IEC 62443-4-1 & 4-2 partial compliance • Requires extra effort and cost to comply	**Highest Compliance Cost** • Minimum cybersecurity development process and design • Requires huge effort and cost to comply	
Backup & Restore Services	**Integrated Backup and Restore** • One-step to create a complete backup including kernel and user space restoration points	**Lacks Integrated Backup** • Requires manual packaging and restoration using a third-party tool such as dd, rsvnc, or tar • Complicated process leads to a high risk of deployment issues across devices		
Remote Device Management	**Moxa DLM** • Remote device management, monitoring, and troubleshooting	Generally, not available by default; some vendors offer proprietary solutions at an extra cost	Not available by default; requires custom development, open-source integration, or third-party integration at extra cost	
Long-term Product Life Cycle Support	**10-year Long-term OS Support** • Security patch and bug fix support without extra cost	Free for first 5 years; annual subscription thereafter	2 to 3 years	Long-term support requires in-house maintenance
Total Cost of Ownership (TCO)	**Low Cost** • Integrated features, long-term support, and minimal maintenance costs	• Subscription and higher maintenance costs add to overall cost	• Low initial cost but high long-term TCO due to limited durability and support costs	• High development cost, maintenance complexity, and reliance on skilled developers

* UC-8200 Series is IEC 62443-4-2 SL2 certified and UC-1200A/2200A/3400A/4400A Series are compliant with the certification requirements

From Deployment to Maintenance Simplifying every step of your operations

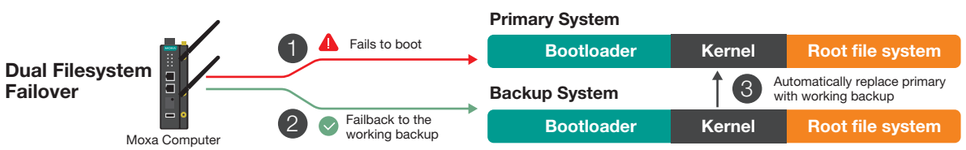
Moxa Connection Manger (MCM)

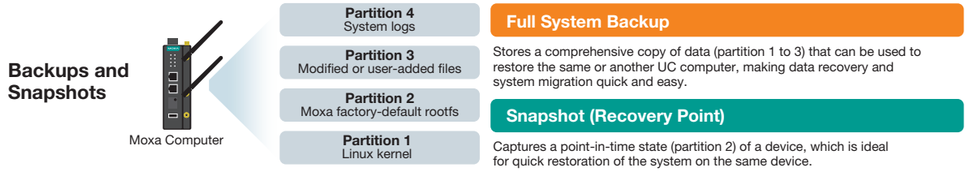
MCM offers an intuitive GUI for configuring and prioritizing Ethernet, Wi-Fi, and cellular network profiles. MCM maintains connections with failover and failback, even during cyberattacks. MCM supports connection diagnostics, making it ideal for applications requiring reliable network switching and multi-channel connectivity.



Moxa System Manager (MSM)

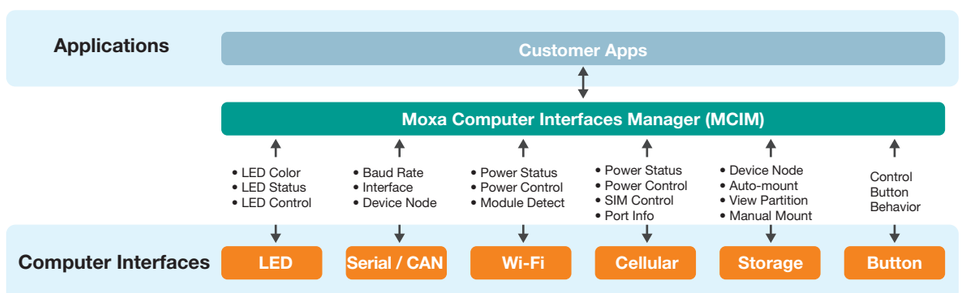
MSM enables full-system snapshots and backup and restore for quick system recovery after system failures. MSM also supports filesystem failover during system bootup, factory reset, and decommissioning to help maintain system availability and life-cycle management.





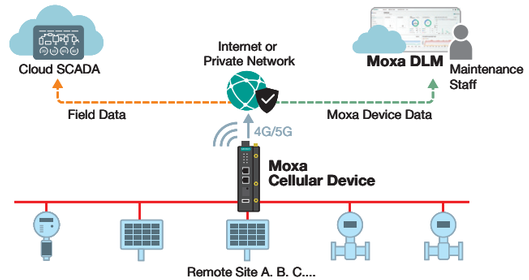
Moxa Connection Interface Manager (MCIM)

MCIM simplifies system integration by providing a unified interface for managing various I/O hardware and non-standard components—such as DI/DO, buttons, disks, buzzers, and RS-232/422/485 mode switching. With CLI support, MCIM eliminates the need to adapt control logic for various SoC platforms, reducing complexity and accelerating application development.



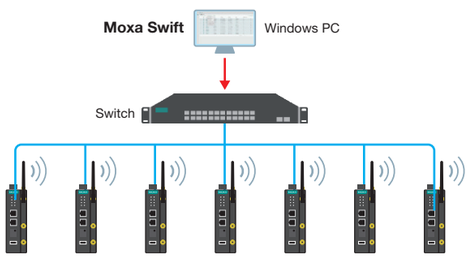
Moxa DLM

Moxa DLM streamlines device life-cycle management by automating provisioning, updates, and monitoring, reducing manual efforts and operational costs through centralized control, and proactive troubleshooting.



Moxa Swift

Moxa Swift enables batch provisioning to easily configure network settings, security settings, button-based actions, and serial port modes (RS-232/422/485), as well as set up event scripts triggered by digital-input events. You can also create a golden backup from one UC computer and deploy it simultaneously across a batch of similar UC computers to speed up mass provisioning.



Moxa Guardian

Moxa Guardian enables security diagnostics to evaluate the compliance of the device with IEC 62443-4-2 Security Level 2 requirements. It compares current system settings against the recommended security baseline, identifies deviations, and provides actionable suggestions—including an option for one-click remedies—to help users maintain both compliance and robust security.

Moxa Software Updater (MSU)

MSU enables you to keep the Moxa Industrial Linux up-to-date with the latest security patches, including fixes for known common vulnerabilities and exposures (CVEs). MSU supports both online and offline updates and includes an auto-recovery mechanism to ensure a safe update process even when updates fails.