

# Moxaの新型 ARMベースコンピューター

セルラー通信機能を搭載したコンパクトな64ビットコンピューター



デュアルコア, 2GB RAM  
コンパクト設計



デュアルコア, 2GB RAM  
LTE内蔵

Series	UC-1200A Series		UC-2200A Series	
Model Name	UC-1222A	UC-2222A-T	UC-2222A-T-EU/AP/US	
<b>Computer</b>				
CPU	Armv8 Cortex-A53 1 GHz dual-core		Armv8 Cortex-A53 1 GHz dual-core	
Memory	2 GB		2 GB	
Storage Preinstalled	16 GB		16 GB	
Storage Slot	Micro SD x 1		Micro SD x 1	
OS	Moxa Industrial Linux 3 (Linux Debian 11 kernel 5.10)		Moxa Industrial Linux 3 (Linux Debian 11 kernel 5.10)	
TPM	TPM 2.0		TPM 2.0	
Ethernet Ports	2 GbE		2 GbE	
Serial Ports (RS-232/422/485)	2		2	
CAN Ports	-		-	
DIs / DOs	-		-	
USB Ports	USB 2.0 x 1		USB 2.0 x 1	
<b>Wireless</b>				
Wireless Expansion Slot	mPCIe x 1		mPCIe x 1	
Cellular Connectivity	-		-	
SIM Slots	Nano SIM x 1		Nano SIM x 1	
Wi-Fi	-		-	
GPS	-		Yes	
<b>Standards and Certification</b>				
Safety/EMC/RF	FCC, IC, UL, CE, BSMI, KC, RCM, UKCA/FCC, IC, UL, CE, BSMI, KC, RCM, UKCA/FCC, IC, UL, CE, NCC, RCM, TELEC, UKCA			
Carrier Approval	-		AT&T, Verizon	
Hazardous Locations	CID2, ATEX		CID2, ATEX	
Operating Temperature	-40 to 60° C		-40 to 75° C	
Power Consumption	4.5 W		7.8 W	

# Moxaの新型ワイヤレス対応 ARMベースコンピューター

セルラー通信とWi-Fi内蔵、国際認証および通信事業者の認証取得済み



クアッドコアプロセッサ、4GB RAM  
LTEおよびWi-Fi内蔵

Series	UC-3400A Series			
Model Name	UC-3420A-T-LTE	UC-3424A-T-LTE	UC-3430A-T-LTE-WiFi	UC-3434A-T-LTE-WiFi
<b>Computer</b>				
CPU	Armv8 Cortex-A53 1.4 GHz quad-core	Armv8 Cortex-A53 1.4 GHz quad-core	Armv8 Cortex-A53 1.4 GHz quad-core	Armv8 Cortex-A53 1.4 GHz quad-core
Memory	4 GB	4 GB	4 GB	4 GB
Storage Preinstalled	16 GB	16 GB	16 GB	16 GB
Storage Slot	Micro SD x 1	Micro SD x 1	Micro SD x 1	Micro SD x 1
OS	Moxa Industrial Linux 3 (Linux Debian 11 kernel 5.10)	Moxa Industrial Linux 3 (Linux Debian 11 kernel 5.10)	Moxa Industrial Linux 3 (Linux Debian 11 kernel 5.10)	Moxa Industrial Linux 3 (Linux Debian 11 kernel 5.10)
TPM	TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0
Ethernet Ports	2 GbE	2 GbE	2 GbE	2 GbE
Serial Ports (RS-232/422/485)	2	2	2	2
CAN Ports	–	2	–	2
DIs / DOs	–	–	–	–
USB Ports	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1
<b>Wireless</b>				
Wireless Expansion Socket	–	–	–	–
Cellular Connectivity	Built-in LTE Cat. 4	Built-in LTE Cat. 4	Built-in LTE Cat. 4	Built-in LTE Cat. 4
SIM Slots	Nano SIM x 2	Nano SIM x 2	Nano SIM x 2	Nano SIM x 2
Wi-Fi	–	–	Built-in WiFi 6	Built-in WiFi 6
GPS	Yes	Yes	Yes	Yes
<b>Standards and Certification</b>				
Safety/EMC/RF	FCC, IC, UL, CE, UKCA, NCC, RCM, TELEC	FCC, IC, UL, CE, UKCA, NCC, RCM, TELEC	FCC, IC, UL, CE, UKCA, NCC, RCM	FCC, IC, UL, CE, UKCA, NCC, RCM
Carrier Approval	AT&T, Verizon	AT&T, Verizon	AT&T, Verizon	AT&T, Verizon
Hazardous Locations	CID2, ATEX	CID2, ATEX	CID2, ATEX	CID2, ATEX
Operating Temperature	-40 to 70° C	-40 to 70° C	-40 to 70° C	-40 to 70° C
Power Consumption	10 W			

# Moxaの新型ワイヤレス対応 ARMベースコンピューター

5G内蔵、国際認証および通信事業者の認証取得済み



クアッドコア、4GB RAM  
5G/CAN/シリアルアイソレーション

Series	UC-4400A Series					
Model Name	UC-4410A-T	UC-4430A-T	UC-4450A-T-5G	UC-4454A-T-5G	UC-4414A-I-T	UC-4434A-I-T
<b>Computer</b>						
CPU	Armv8 Cortex-A53 1.6 GHz quad-core	Armv8 Cortex-A53 1.6 GHz quad-core	Armv8 Cortex-A53 1.6 GHz quad-core	Armv8 Cortex-A53 1.6 GHz quad-core	Armv8 Cortex-A53 1.6 GHz quad-core	Armv8 Cortex-A53 1.6 GHz quad-core
Memory	4 GB	4 GB	4 GB	4 GB	4 GB	4 GB
Storage Preinstalled	16 GB	16 GB	16 GB	16 GB	16 GB	16 GB
Storage Slot	Micro SD x 1	Micro SD x 1	Micro SD x 1	Micro SD x 1	Micro SD x 1	Micro SD x 1
OS	Moxa Industrial Linux 3 (Linux Debian 11 kernel 5.10)	Moxa Industrial Linux 3 (Linux Debian 11 kernel 5.10)	Moxa Industrial Linux 3 (Linux Debian 11 kernel 5.10)	Moxa Industrial Linux 3 (Linux Debian 11 kernel 5.10)	Moxa Industrial Linux 3 (Linux Debian 11 kernel 5.10)	Moxa Industrial Linux 3 (Linux Debian 11 kernel 5.10)
TPM	TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0
Ethernet Ports	2 GbE	2 GbE	2 GbE	2 GbE	2 GbE	2 GbE
Serial Ports (RS-232/422/485)	2	2	2	4	4 (2 ports with isolation)	4 (2 ports with isolation)
CAN Ports	1	1	1	2	2	2
DIs / DOs	4 DIs, 4 DOs	4 DIs, 4 DOs	4 DIs, 4 DOs	4 DIs, 4 DOs	4 DIs, 4 DOs	4 DIs, 4 DOs
USB Ports	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1
<b>Wireless</b>						
Wireless Expansion Socket	-	M.2 socket x 1 mPCIe slot x 1	M.2 socket x 1 M.2 socket x 1	M.2 socket x 1	-	M.2 socket x 1 mPCIe slot x 1
Cellular Connectivity	-	Optional LTE Cat.4 accessory	Built-in 5G	Built-in 5G	-	Optional LTE Cat.4 accessory
SIM Slots	-	Nano SIM x 2 Nano SIM x 2	Nano SIM x 2	Nano SIM x 2	-	Nano SIM x 2
Wi-Fi	-	Optional WiFi 6 accessory	Optional WiFi 6 accessory	Optional WiFi 6 accessory	-	Optional WiFi 6 accessory
GPS	-	Optional	Yes	Yes	-	Optional
<b>Standards and Certification</b>						
Safety/EMC/RF	FCC, IC, CE, UKCA, RCM, KC, BSMI, UL	FCC, IC, CE, UKCA, RCM, KC, UL (no RF certification)	FCC, IC, UL, CE, UKCA, NCC, RCM	FCC, IC, UL, CE, UKCA, NCC, RCM	FCC, IC, CE, UKCA, RCM, KC, BSMI, UL	FCC, IC, CE, UKCA, RCM, KC, UL (no RF certification)
Carrier Approval	-	-	AT&T, Verizon	AT&T, Verizon	-	-
Operating Temperature	<ul style="list-style-type: none"> <li>Non-wireless: -40 to 75° C</li> <li>Wireless: -40 to 70° C</li> </ul>					
Power Consumption	<ul style="list-style-type: none"> <li>14 W (with cellular and Wi-Fi)</li> <li>12 W (with cellular only)</li> <li>10 W (without wireless module)</li> </ul>					

# Moxa Industrial Linux

長期プロジェクトに最適な、Debianベース 産業用グレードの安定版Linuxディストリビューション



## 主な特長と利点

- ☑ 標準のDebianパッケージすべて利用可能なDebianベースのディストリビューション
- ☑ IEC 62443-4-1認証開発ライフサイクルプロセス準拠、IEC 62443-4-2 産業用サイバーセキュリティ規格 (Moxa Industrial Linux 3 Secure)に準拠
- ☑ Moxa Industrial Linux 1は2027年まで、Moxa Industrial Linux 3は2031年まで長期サポートを提供
- ☑ 自動ネットワークキープアライブおよびフェイルオーバー機能を備えた無線接続管理ユーティリティ
- ☑ ハードウェアおよびI/Oインターフェースへのアクセスを容易にする、すぐに使用できるAPIとライブラリ
- ☑ クラッシュのない堅牢なファイルシステム
- ☑ OTA (Over-the-Air) ソフトウェアアップデート

Product Series	MIL1	MIL3 / MIL4*	
		Standard	Secure
<b>Support</b>			
Supported Devices	UC-2100 Series, UC-3100 Series, UC-5100 Series, UC-8100 Series, UC-8100A Series, UC-8410A Series, UC-8540 Series, UC-8580 Series	UC-1200A Series, UC-2200A Series, UC-3400A Series, UC-4400A Series, UC-8200 Series, ioThinX 4533 Series	UC-1200A Series, UC-2200A Series, UC-3400A Series, UC-4400A Series, UC-8200 Series, V3200 Series, V3400 Series
10-year Superior Long-term Support (bug fixes and security updates)	2018 to 2027	MIL3: 2022 to 2031 MIL4: 2025 to 2035	
<b>Management</b>			
Middleware for I/O Communication and Control	-	✓	✓
Network Connection and Management Tool	✓ (basic)	✓ (advanced)	✓ (advanced)
Provisioning Tool	-	✓	✓
<b>Security</b>			
IEC 62443-4-1 Certified Development	-	✓	✓
Security Diagnostic Tool	-	-	✓
Secure Boot / Disk Protection	-	LUKS	LUKS, Secure Boot
Dynamic Interface Control	-	✓	✓
Secure Updates via APT	-	-	✓
Backup and Recovery Tool	-	✓	✓
Host-based Intrusion Detection	-	User-configurable	Pre-defined, User-configurable
Brute-force Protection	-	✓	✓
Network Security Monitoring	-	✓	✓
Security Event Auditing (Syslog)	✓ (basic)	✓ (basic)	✓ (advanced)
Secure Decommission Tool	-	✓	✓

\* MIL4 is plan to launch in Jan, 2026

# Moxaの新型ワイヤレス対応 ARMベースコンピューター

内蔵セルラーまたはWi-Fiモジュール、RF認証、および通信事業者認証取得済み



LTE Cat.1内蔵



LTE Cat.1および  
Wi-Fi内蔵



LTE Cat.1および  
Wi-Fi内蔵



LTE Cat.4内蔵  
(Wi-Fi拡張対応)

Series	UC-3100 Series			UC-8200 Series
Model	UC-3101	UC-3111	UC-3121	UC-8220
<b>Computer</b>				
CPU	Arm Cortex-A8 1 GHz	Arm Cortex-A8 1 GHz	Arm Cortex-A8 1 GHz	Arm Cortex-A7 1 GHz dual core
Memory	1 GB	1 GB	1 GB	2 GB
Storage Preinstalled	8 GB	8 GB	8 GB	8 GB
Storage Slot	–	SD x 1	SD x 1	MicroSD x 1
OS	Moxa Industrial Linux 1 (Debian 9, Kernel 4.4)	Moxa Industrial Linux 1 (Debian 9, Kernel 4.4)	Moxa Industrial Linux 1 (Debian 9, Kernel 4.4)	Moxa Industrial Linux 1 (Debian 9, Kernel 4.4) Moxa Industrial Linux 3 (Debian 11, Kernel 5.10)
TPM	TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0
Ethernet Ports	2 LAN	2 LAN	2 LAN	2 GbE
Serial Ports (RS-232/422/485)	1	2	1	2
CAN Ports	–	–	1	1
DIs / DOs	–	–	–	4 DIs, 4 DOs
USB Ports	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1
<b>Wireless</b>				
Wireless Expansion Slot	–	–	–	mPCIe slot x 1
Cellular Connectivity	Built-in LTE Cat. 1 <sup>1</sup>	Built-in LTE Cat. 1 <sup>1</sup>	Built-in LTE Cat. 1 <sup>1</sup>	Built-in LTE Cat. 4 <sup>1</sup>
SIM Slots	Nano SIM x 2	Nano SIM x 2	Nano SIM x 2	Nano SIM x 2
Wi-Fi	–	Built-in WiFi 4	Built-in WiFi 4	Expandable <sup>2</sup>
GPS	Yes	Yes	Yes	Yes
<b>Standards and Certifications</b>				
Safety/EMC/RF	CE, FCC, UL, IC, RCM, UKCA, TELEC	CE, FCC, UL, IC, RCM, UKCA, WPC, TELEC, IFETEL (US model), ENACOM (EU model), NBTC (EU model), SUBTEL (US model)	CE, FCC, UL, IC, RCM, UKCA, TELEC	CE, FCC, UL, IC, RCM, UKCA, NCC, TELEC, BIS
Carrier Approval	Verizon, AT&T	Verizon, AT&T	Verizon, AT&T	Verizon, AT&T
Hazardous Locations	ATEX, C ID2, IECEx	ATEX, C ID2, IECEx	ATEX, C ID2, IECEx	ATEX, C ID2
<b>Environmental Limits and Power Parameters</b>				
Operating Temperature	-40 to 70° C	-40 to 70° C	-40 to 70° C	-40 to 70° C
Power Consumption (max.)	6 W	8 W	8 W	10 W

1. Wireless module must be purchased separately.

# ワイヤレス機能搭載 ARMベースコンピューター

ニーズに合わせてセルラー通信またはWi-Fi機能を追加できる柔軟性



Series	UC-2100 Series	UC-5100 Series		UC-8100 Series	UC-8200 Series	UC-8410A Series
Model	UC-2104	UC-5102	UC-5112	UC-8112	UC-8220	UC-8410A
<b>Computer</b>						
CPU	Arm Cortex-A8 600 MHz	Arm Cortex-A8 1 GHz	Arm Cortex-A8 1 GHz	Arm Cortex-A8 1 GHz	Arm Cortex-A7 1 GHz dual core	Arm Cortex-A7 1 GHz dual core
Memory	256 MB	512 MB	512 MB	512 MB	2 GB	1 GB
Storage Preinstalled	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB
Storage Slot	–	SD x 1	SD x 1	SD x 1	MicroSD x 1SD x 1, mSATA x 1	
OS	Moxa Industrial Linux (Debian 9, Kernel 4.4)	Moxa Industrial Linux (Debian 9, Kernel 4.4)	Moxa Industrial Linux (Debian 9, Kernel 4.4)	Moxa Industrial Linux (Debian 9, Kernel 4.4)	Moxa Industrial Linux 1 (Debian 9, Kernel 4.4) Moxa Industrial Linux 3 (Debian 11, Kernel 5.10)	Linux Debian 8 (kernel 4.4) Moxa Industrial Linux (Debian 9, Kernel 4.4)
Ethernet Ports	1 LAN	2 LAN	2 LAN	2 LAN	2 GbE	3 GbE
Serial Ports (RS-232/422/485)	–	4	4	2	2	8
CAN Ports	–	–	2	–	1	–
DIs / DOs	–	4 DIs, 4 DOs	4 DIs, 4 DOs	–	4 DIs, 4 DOs	4 DIs, 4 DOs
USB Ports	–	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 2
<b>Wireless</b>						
Wireless Expansion Slot	mPCIe x 1	mPCIe x 1	mPCIe x 1	mPCIe x 1	mPCIe x 2	mPCIe x 1
SIM Slots	Mini SIM x 1	Micro SIM x 2 Micro SIM x 2		Mini SIM x 1	Nano SIM x 2	Mini SIM x 1
<b>Standards and Certifications</b>						
Safety/EMC/RF	CE, FCC, UL, IC, UKCA, BIS	CE, FCC, UL, IC, UKCA	CE, FCC, UL, IC, UKCA	CE, FCC, UL, IC, UKCA, RCM, BSMI, BIS	CE, FCC, UL, IC, RCM, UKCA, NCC, KC, BIS	CE, FCC, UL, IC, UKCA
Hazardous Locations	–	–	–	–	ATEX, C ID2	–
<b>Environmental Limits and Power Parameters</b>						
Operating Temperature	-10 to 70° C	<ul style="list-style-type: none"> <li>-40 to 85° C</li> <li>-40 to 70° C (with LTE)</li> <li>-10 to 70° C (with Wi-Fi)</li> </ul>	<ul style="list-style-type: none"> <li>-40 to 85° C</li> <li>-40 to 70° C (with LTE)</li> <li>-10 to 70° C (with Wi-Fi)</li> </ul>	-10 to 60° C	<ul style="list-style-type: none"> <li>-40 to 85° C</li> <li>-40 to 70° C (with LTE/Wi-Fi)</li> </ul>	<ul style="list-style-type: none"> <li>-40 to 75° C</li> <li>-40 to 70° C (with Wi-Fi)</li> </ul>
Power Consumption	4 W	11 W	11 W	8 W	10 W	19 W

1. Wireless module must be purchased separately.

# スタンダードモデル ARMベースコンピューター

低消費電力、小型フォームファクター



Series	UC-2100 Series				UC-5100 Series		UC-8200 Series	UC-8410A Series
Model	UC-2101	UC-2102	UC-2111	UC-2112	UC-5101	UC-5111	UC-8210	UC-8410A-NW
<b>Computer</b>								
CPU	Arm Cortex-A8 600 MHz	Arm Cortex-A8 600 MHz	Arm Cortex-A8 600 MHz	Arm Cortex-A8 1 GHz	Arm Cortex-A8 1 GHz	Arm Cortex-A8 1 GHz	Arm Cortex-A7 1 GHz dual-core	Arm Cortex-A7 1 GHz dual-core
Memory	256 MB	256 MB	512 MB	512 MB	512 MB	512 MB	2 GB	1 GB
Storage Preinstalled	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB
Storage Slot	–	–	MicroSD x1	MicroSD x 1	SD x 1	SD x 1	MicroSD x 1	SD x 1 mSATA x 1
OS	Moxa Industrial Linux (Debian 9, Kernel 4.4)	Moxa Industrial Linux (Debian 9, Kernel 4.4)	Moxa Industrial Linux (Debian 9, Kernel 4.4)	Moxa Industrial Linux (Debian 9, Kernel 4.4)	Moxa Industrial Linux (Debian 9, Kernel 4.4)	Moxa Industrial Linux (Debian 9, Kernel 4.4)	Moxa Industrial Linux (Debian 9, kernel 4.4 or Debian 11, kernel 5.10)	Moxa Industrial Linux (Debian 9, kernel 4.4)
TPM	–	–	–	–	–	–	TPM 2.0	–
Ethernet Ports	1 LAN	2 LAN	2 LAN	1 GbE, 1 LAN	2 LAN	2 LAN	2 GbE	3 GbE
Serial Ports (RS-232/422/485)	1	–	2	2	4	4	2	8
CAN Ports	–	–	–	–	–	2	1	–
DIs / DOs	–	–	–	–	4 DIs, 4 DOs	4 DIs, 4 DOs	4 DIs, 4 DOs	4 DIs, 4 DOs
USB Ports	–	–	–	–	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 2
<b>Standards and Certifications</b>								
Safety/EMC/RF	CE, FCC, UL, IC, UKCA, RCM, BIS	CE, FCC, UL, IC, UKCA, RCM, BIS	CE, FCC, UL, IC, UKCA, RCM, BIS	CE, FCC, UL, IC, UKCA, RCM, BIS	CE, FCC, UL, IC, UKCA, RCM	CE, FCC, UL, IC, UKCA, RCM	CE, FCC, UL, IC, KC, UKCA, BIS	CE, FCC, UL, IC, UKCA, RCM
Hazardous Locations	–	–	–	ATEX, C ID2	–	–	ATEX, C ID2	–
<b>Environmental Limits and Power Parameters</b>								
Operating Temperature	-10 to 60° C	-10 to 60° C	-10 to 60° C	• -40 to 75° C (T models) • -10 to 60° C	• -40 to 85° C (T models) • -10 to 60° C	• -40 to 85° C (T models) • -10 to 60° C	-40 to 85° C	• -40 to 75° C (T models) • -10 to 60° C
Power Consumption	4 W	4 W	4 W	4 W	11 W	11 W	10 W	19 W