

Moxa New Armベース64ビットコンピューター

エントリーレベルArmベース64ビットコンピューター



Dual-core, 2-GB RAM
Compact



Dual-core, 2-GB RAM
Built-in LTE

Series	UC-1200A Series		UC-2200A Series		
Model Name	UC-1222A		UC-2222A-T/UC-2222A-T-CN		UC-2222A-T-EU/AP/US
Computer					
CPU	Armv8 Cortex-A53 1 GHz dual-core		Armv8 Cortex-A53 1 GHz dual-core		Armv8 Cortex-A53 1 GHz dual-core
Memory	2 GB		2 GB		2 GB
Storage Preinstalled	16 GB		16 GB		16 GB
Storage Slot	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)
TPM	TPM 2.0		TPM 2.0		TPM 2.0
Ethernet Ports	2 GbE		2 GbE		2 GbE
Serial Ports (RS-232/422/485)	2		2		2
CAN Ports	-		-		-
DIs / DOs	-		-		-
USB Ports	USB 2.0 x 1		USB 2.0 x 1		USB 2.0 x 1
Wireless					
Wireless Expansion Slot	mPCIe x 1		mPCIe x 1		-
Cellular Connectivity	-		-		Built-in LTE Cat. 4
SIM Slots	Nano SIM x 1		Nano SIM x 1		Nano SIM x 1
Wi-Fi	-		-		-
GPS	-		-		Yes
Standards and Certification					
Safety/EMC/RF	FCC, IC, UL, CE, BSMI, KC, RCM		FCC, IC, UL, CE, BSMI, KC, RCM		FCC, IC, UL, CE, NCC, KC, RCM
Carrier Approval	-		-		AT&T, Verizon
Hazardous Locations	C1D2, ATEX		C1D2, ATEX		C1D2, ATEX
Operating Temperature	-40 to 60°C		UC-2222A-T: -40 to 75°C UC-2222A-T-CN: -40 to 70°C		-40 to 70°C
Power Consumption	4.5 W		4.5 W		7.8 W

Moxa New Armベース64ビットコンピューター (preliminary)

付加価値の高いArmベースの64ビットコンピューター



Quad-core, 4-GB RAM
Built-in LTE

Series	UC-3400A Series			
Model Name	UC-3420A-T-LTE	UC-3424A-T-LTE	UC-3430A-T-LTE-WiFi	UC-3434A-T-LTE-WiFi
Computer				
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
Wireless				
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
Standards and Certification				
Safety/EMC/RF	FCC, IC, UL, CE, UKCA, NCC, KC, RCM	FCC, IC, UL, CE, UKCA, NCC, KC, RCM	FCC, IC, UL, CE, UKCA, NCC, KC, RCM	FCC, IC, UL, CE, UKCA, NCC, KC, RCM
Carrier Approval	AT&T, Verizon	AT&T, Verizon	AT&T, Verizon	AT&T, Verizon
Hazardous Locations	C1D2, ATEX	C1D2, ATEX	C1D2, ATEX	C1D2, ATEX
Operating Temperature	-40 to 70°C	-40 to 70°C	-40 to 70°C	-40 to 70°C
Power Consumption	10 W			

Moxa New Armベース64ビットコンピューター (preliminary)

付加価値の高いArmベースの64ビットコンピューター



Quad-core, 4-GB RAM
5G/CAN/serial Isolation

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
Computer						
CPU	Arm v8 Cortex-A53 1.6 GHz quad-core	Arm v8 Cortex-A53 1.6 GHz quad-core	Arm v8 Cortex-A53 1.6 GHz quad-core	Arm v8 Cortex-A53 1.6 GHz quad-core	Arm v8 Cortex-A53 1.6 GHz quad-core	Arm v8 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
Wireless						
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 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
Wi-Fi	-	Optional WiFi 6 accessory	Optional WiFi 6 accessory	Optional WiFi 6 accessory	-	Optional WiFi 6 accessory
GPS	-	Optional	Yes	Yes	-	Optional
Standards and Certification						
Safety/EMC/RF	UL, CE, UKCA	UL, CE, UKCA (no RF certification)	FCC, IC, UL, CE, UKCA, NCC	FCC, IC, UL, CE, UKCA, NCC	UL, CE, UKCA	UL, CE, UKCA (no RF certification)
Carrier Approval	-	-	AT&T, Verizon	AT&T, Verizon	-	-
Hazardous Locations	C1D2, ATEX	C1D2, ATEX	C1D2, ATEX	C1D2, ATEX	C1D2, ATEX	C1D2, ATEX
Operating Temperature	<ul style="list-style-type: none"> • Non-wireless: -40 to 75°C • Wireless: -40 to 70°C 					
Power Consumption	<ul style="list-style-type: none"> • 14 W (with cellular and Wi-Fi) • 12 W (with cellular only) • 10 W (without wireless module) 					

Moxa Industrial Linux

Moxa 長期プロジェクト向けDebianベース産業グレードstable Linuxディストリビューション



特長と利点

- ☑ すべての標準Debianパッケージを使用できるDebianベースのディストリビューション
- ☑ IEC 62443-4-1に従って開発され、IEC 62443-4-2産業用サイバーセキュリティ規格に準拠 (Moxa Industrial Linux 3 Secure)
- ☑ Moxa Industrial Linux 1は2027年まで。Moxa Industrial Linux 3は2031年までの長期サポート
- ☑ 自動ネットワークキープアライブとフェイルオーバーを備えたワイヤレス接続管理ユーティリティ
- ☑ ハードウェアとI/Oインタフェースへのアクセスを容易にするすぐに使えるAPIとライブラリ
- ☑ クラッシュフリーの堅牢なファイルシステム
- ☑ OTAソフトウェアアップデート

Supported Devices

<p>Moxa Industrial Linux 1 (Debian 9, Kernel 4.4)</p>	<p>Revision 1.0.0 and Later:</p> <ul style="list-style-type: none"> • UC-2100 Series • UC-3100 Series • UC-5100 Series • UC-8200 Series • UC-8540/8580 Series <p>Revision 2.1.0 and Later:</p> <ul style="list-style-type: none"> • UC-8410A Series: <p>Revision 3.0.0 and later:</p> <ul style="list-style-type: none"> • UC-8100 Series
<p>Moxa Industrial Linux 3 (Debian 11, Kernel 5.10)</p>	<p>Revision 1.0 and later:</p> <ul style="list-style-type: none"> • UC-8200 Series Models: UC-8220-TLX (CTO)/ T-LX-S (CTO), UC-8220-T-LX-US-S (CTO)/ EU-S (CTO)/ AP-S (CTO) • UC-1200A Series • UC-2200A Series • UC-3400A Series • UC-4400A Series

ワイヤレス対応 Armベース32ビットコンピューター

内蔵セルラーまたはWi-Fiモジュール、RFタイプ承認、キャリア承認



Built-in LTE Cat.1



Built-in LTE Cat.1 and Wi-Fi



Built-in LTE Cat.1 and Wi-Fi



Built-in LTE Cat.4 with Wi-Fi expansion

Series	UC-3100 Series			UC-8200 Series
Model	UC-3101	UC-3111	UC-3121	UC-8220
Computer				
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
Wireless				
Wireless Expansion Slot	-	-	-	mPCIe slot x 1
Cellular Connectivity	Built-in LTE Cat. 1 ¹	Built-in LTE Cat. 1 ¹	Built-in LTE Cat. 1 ¹	Built-in LTE Cat. 4 ¹
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 ²
GPS	Yes	Yes	Yes	Yes
Standards and Certifications				
Safety/EMC/RF	CE, FCC, UL, IC, RCM, UKCA	CE, FCC, UL, IC, RCM, UKCA, IFETEL(US model, EU model), ENACOM(US model, EU model), NBTC(US model, EU model), SUBTEL(US model, EU model)	CE, FCC, UL, IC, RCM, UKCA	CE, FCC, UL, IC, RCM, KC, UKCA
Carrier Approval	Verizon, AT&T	Verizon, AT&T	Verizon, AT&T	Verizon, AT&T
Hazardous Locations	ATEX, C1D2, IECEx	ATEX, C1D2, IECEx	ATEX, C1D2, IECEx	ATEX, C1D2
Environmental Limits and Power Parameters				
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.ワイヤレスモジュール内蔵。詳細は「ワイヤレス接続と拡張モジュール」の項を参照してください。

2.ワイヤレスモジュールは別途購入する必要があります。詳細は、「ワイヤレス接続と拡張モジュール」の項を参照してください。

Armベース32ビットコンピューター・ワイヤレスオプション

必要に応じてセルラーまたはWi-Fi機能追加対応



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
Computer						
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 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 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
Wireless¹						
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
Standards and Certifications						
Safety/EMC/RF	CE, FCC, UL, IC, UKCA	CE, FCC, UL, IC, UKCA	CE, FCC, UL, IC, UKCA	CE, FCC, UL, IC, UKCA	CE, FCC, UL, IC, RCM, KC, UKCA	CE, FCC, UL, IC, UKCA
Hazardous Locations	–	–	–	–	ATEX, C1D2	–
Environmental Limits and Power Parameters						
Operating Temperature	-10 to 70°C	<ul style="list-style-type: none"> -40 to 85°C -40 to 70°C (with LTE) -10 to 70°C (with Wi-Fi) 	<ul style="list-style-type: none"> -40 to 85°C -40 to 70°C (with LTE) -10 to 70°C (with Wi-Fi) 	-10 to 60°C	<ul style="list-style-type: none"> -40 to 85°C -40 to 70°C (with LTE/Wi-Fi) 	<ul style="list-style-type: none"> -40 to 75°C -40 to 70°C (with Wi-Fi)
Power Consumption	4 W	11 W	11 W	8 W	10 W	19 W

1.ワイヤレスモジュールは別途ご購入ください。詳しくは「ワイヤレス接続と拡張モジュール」の項をご参照ください。

スタンダード Armベース32ビットコンピューター

低消費電力と小型フォームファクター



Series	UC-2100 Series				UC-5100 Series		UC-8100 Series	UC-8200 Series	UC-8410A Series
Model	UC-2101	UC-2102	UC-2111	UC-2112	UC-5101	UC-5111	UC-8131	UC-8210	UC-8410A-NW
Computer									
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-A8 300 MHz	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	256 MB	2 GB	1 GB
Storage Preinstalled	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB	8 GB
Storage Slot	-	-	MicroSD x1	MicroSD x1	SD x1	SD x1	SD x1	MicroSD x1	SD x1 mSATA x1
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)	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 LAN	2 GbE	3 GbE
Serial Ports (RS-232/422/485)	1	-	2	2	4	4	1	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 x1	USB 2.0 x1	USB 2.0 x1	USB 2.0 x1	USB 2.0 x2
Standards and Certifications									
Safety/EMC/RF	CE, FCC, UL, IC, UKCA	CE, FCC, UL, IC, UKCA	CE, FCC, UL, IC, UKCA	CE, FCC, UL, IC, UKCA	CE, FCC, UL, IC, UKCA	CE, FCC, UL, IC, UKCA	CE, FCC, UL, IC, UKCA	CE, FCC, UL, IC, KC, UKCA	CE, FCC, UL, IC, UKCA
Hazardous Locations	-	-	-	ATEX, C1D2	-	-	-	ATEX, C1D2	-
Environmental Limits and Power Parameters									
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	-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	5.4 W	10 W	19 W

ワイヤレス接続と拡張モジュール*

セルラーおよびWi-Fiサポート詳細およびワイヤレスアクセサリモデルリスト

Connection	Series	Models	Wireless Model/ Wireless Module	Countries/regions Supported	Wireless Standard	Bands Supported
Cellular	UC-2100	UC-2104-LX	UC-LTE-CAT1-EU	Europe	LTE Cat. 1	1, 3, 7, 8, 20, 28A
			UC-LTE-CAT1-AP	Asia-Pacific	LTE Cat. 1	1, 3, 5, 8, 9, 18(26), 19, 28
			UC-LTE-CAT4-CN	China	LTE Cat. 4	1, 3, 8, 39, 40, 41
	UC-3100	UC-3101/3111/3121-T-US-LX UC-3101/3111/3121-T-EU-LX UC-3101/3111/3121-T-AP-LX	Built-in	USA	LTE Cat. 1	2, 4, 5, 12, 13, 14, 66, 71
			Built-in	Europe	LTE Cat. 1	1, 3, 7, 8, 20, 28A
			Built-in	Asia-Pacific	LTE Cat. 1	1, 3, 5, 8, 9, 18(26), 19, 28
	UC-5100	UC-5102/5112-LX, UC-5102/5112-T-LX	UC-LTE-CAT1-EU	Europe	LTE Cat. 1	1, 3, 7, 8, 20, 28A
			UC-LTE-CAT1-AP	Asia-Pacific	LTE Cat. 1	1, 3, 5, 8, 9, 18(26), 19, 28
			UC-LTE-CAT4-CN	China	LTE Cat. 4	1, 3, 8, 39, 40, 41
	UC-8200	UC-8220-T-LX-US-S UC-8220-T-LX-EU-S UC-8220-T-LX-AP-S	Built-in	USA	LTE Cat. 4	2, 4, 5, 12, 13, 14, 66, 71
			Built-in	Europe	LTE Cat. 4	1, 3, 7, 8, 20, 28A
			Built-in	Asia-Pacific	LTE Cat. 4	1, 3, 5, 8, 9, 18(26), 19, 28
Wi-Fi	UC-2100	UC-2104-LX	UC-WiFi-USB	-	802.11 a/b/g/n/ac, 1T1R	2.4 GHz / 5 GHz
	UC-3100	UC-3111/3121-T-US-LX, UC-3111/3121-T-EU-LX, UC-3111/3121-T-AP-LX,	Built-in	-	802.11 a/b/g/n, 2T2R	2.4 GHz / 5 GHz
	UC-5100	UC-5102/5112-LX, UC-5102/5112-T-LX	UC-WiFi-USB	-	802.11 a/b/g/n/ac, 1T1R	2.4 GHz / 5 GHz
	UC-8100	UC-8112/8132/8162-LX	WiFi-BGN	-	802.11 a/b/g/n/ac, 1T1R	2.4 GHz / 5 GHz
	UC-8200	UC-8220-T-LX, UC-8220-T-LX-US-S, UC-8220-T-LX-EU-S, UC-8220-T-LX-AP-S	UC-8200 WiFi-AC	-	802.11 a/b/g/n/ac, 2T2R	2.4 GHz / 5 GHz
	UC-8410A	UC-8410A-LX, UC-8410A-T-LX	Wi-Fi-BGN(252NI)	-	802.11 a/b/g/n, 2T2R	2.4 GHz / 5 GHz

* アンテナは別途購入が必要