



3

Automation Computers

- ☞ 3-4 Industrial Automation Edge
- ☞ 3-6 M2I Control Edge
- ☞ 3-7 Application-Oriented Edge
- ☞ 3-9 iDoor Technology Modules
- ☞ 3-10 Edge Service Packages



Advantech

Ideal for diverse edge computing applications



Machine Builder

Equipment Facility

Factory Automation

Machine Control

Protocol Conversion

WISE-DeviceOn

CODESYS

EdgeLink

WISE-DeviceOn

M2I Control Edge
UNO-100/ UNO-300

Industrial Automation Edge
UNO-2000

M2I Control Edge

Advantech's latest UNO-100/300 series of embedded edge controllers are designed to deliver high-performance computing and maximum flexibility. With support of the latest range of expansion interfaces, including PCIe for high density I/O, iDoor for fieldbus modules, and PCI for motion cards. Advantech provides a reliable machine-to-intelligence control edge solution to bridge the gap between OT and IT.

Industrial Computing Edge

Advantech's IoT automation gateways offer flexible and expandable features based on new modular designs. Integrated with iDoor expandability and stackable modular design, the UNO-2000 series is adapted for different kinds of embedded automation applications. The units can be easily integrated with Advantech software which helps bridge the gap between IT and OT. The UNO-2000 series is suitable for individual design requirements that enable flexible and manageable configurations.

Industrial Edge

That seamlessly bridge OT to IT

Building Automation

Public Utility

Oil & Gas

Visualization



Predictive Maintenance



Data Analytics

EdgeSync 360



Microsoft Azure



THINMANAGER
A ROCKWELL AUTOMATION TECHNOLOGY



Application-Oriented Edge

UNO-200/ UNO-400

Application-Oriented Edge

IoT Gateway Edge UNO-200

Advantech's UNO-200 series is the bridge for data from edge devices to the cloud and plays a central role in IoT edge gateway applications. Thanks to their digital and analog I/O, this series offers the capability of fast connectivity to edge devices. All collected data can be delivered to the cloud by Gigabit LAN and high speed RF technologies. With the UNO-200 series installed, your system will benefit from video output features that will allow you to visualize information on a dashboard and monitor.

Explosion Proof Edge UNO-400

Advantech's UNO-400 offers domain-focused edge gateways which satisfy diverse industry requirements. The UNO-410 supports C1D2+IEC ATEX (open type) certification and wide temperature ranges from -40 ~ 70°C, which are perfect for control cabinet usage. The UNO-430 is a IP66 and C1D2 + ATEX (stand alone) certified ruggedized outdoor gateway, which is also suitable for outdoor usage with waterproof and dust-proof, featuring along with -40 ~ 70°C wide temperature range support.

1

Edge Software & Industry Solutions

2

Intelligent HMI & Monitors

3

Automation Computers

4

Intelligent Systems

5

Mission Critical CompactPCI Platforms

6

Intelligent Transportation & Substation Certified Systems

7

Industrial Server & Cloud Solutions

8

AI & Advanced Computer Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions & Automation Controllers

14

Intelligent Motion Control Solutions

15

Data Acquisition (DAQ) Solutions

16

Remote I/O, Wireless I/O & Sensors

17

Serial/USB Communications

Industrial Automation Edge

NEW

NEW



Model		UNO-2271G V3	UNO-2271G V2	UNO-2271G
CPU		Intel Atom® x7211RE processor	Intel® Celeron® processor N6210 Intel® Pentium® processor N6415	Intel Atom® E3815 processor Intel® Celeron® processor E3825
Memory		1 x LPDDR5 with 8 GB	1 x DDR4 with 4 GB/8 GB	1 x DDR3L with 4 GB
Storage		1 x eMMC (64 GB)	1 x eMMC (32 GB/64 GB), 1 x mSATA (shared with mPCIe)	1 x eMMC (32 GB), 1 x mSATA (shared with mPCIe)
I/O Interface	Displays	1 x HDMI	1 x HDMI	1 x HDMI
	Audio	-	-	-
	USB Ports	1 x USB 3.2 1 x Type-C	2 x USB 3.2	UNO-2271G-E21BE/E021AE/E23BE/ E023AE: 1 x USB 3.0 UNO-2271G-E22BE/E022AE: 3 x USB 2.0, 1 x USB 3.0
	Expansion	1 x M.2 B-Key	1 x Full-size mPCIe Slot	1 x Full-size mPCIe Slot
Antenna Hole		2 x reserved antenna hole	2 x reserved antenna hole	3 x reserved antenna hole
OS Support		Windows10, Windows 11, Linux	Windows 10 LTSC, Windows 11, Linux, Ubuntu 20.04, Ubuntu Core 20	Windows 10 2019 LTSC, WEST7, Linux
Hardware Security		TPM2.0	TPM 2.0	TPM 2.0
Operating Temperature		-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	0 ~ 50°C (32 ~ 122°F)
Power Consumption		12W	12W	12W
Power Input		10 ~ 30 V _{DC}	10 ~ 30 V _{DC}	10 ~ 30 V _{DC}
Mechanical	Mounting	Stand, Wall (Optional VESA)	Stand, Wall (Optional VESA and DIN-rail)	Stand, Wall (Optional VESA and DIN-rail)
	Dimension (W x H x D)	100 x 40 x 70 mm	100 x 30 x 70 mm	100 x 30 x 70 mm
	Weight (Net)	0.5 kg (1.1 lb)	0.5 kg (1.1 lb)	0.5 kg (1.1 lb)



Expansion Kit	2nd stack expansion module for support 1 x iDoor	2nd stack expansion module for support 2 x COM, 1 x POE (PD), M.2 B-Key	2nd stack expansion module for support 2 x COM, 1 x M.2 B-Key, 1 x M.2 E-Key
Part Number	UNO-2271G-EKBE UNO-2271G-EKCE (for V3)	UNO-2271G-RP1EA UNO-2271G-RP1EB (for V3)	UNO-2271G-RS2EA UNO-2271G-RS2EB (for V3)
I/O & Expansion	1 x iDoor (Chassis only)	2 x COM (RS-232/422/485) 1 x PoE+ (802.3at) (PD) 1 x M.2 B-Key (USB3.0/ SATA)	2 x COM (RS-232/422/485) 1 x M.2 B-Key (USB3.0/ SATA) 1 x M.2 E-Key (PCIe)
Dimension (W x H x D)	100 x 30 x 70 mm	100 x 30 x 70 mm	100 x 40 x 70 mm
Description	UNO-2271G V2 2nd stack extension kit for iDoor	UNO-2271G V2 2nd stack expansion module for support 2 x COM, 1 x POE (PD), M.2 B Key	2nd stack expansion module for support 2 x COM, 1 x M.2 B key, 1 x M.2 E key

✓: supported, -: not supported, △: optional

Industrial Automation Edge

NEW

NEW



Model		UNO-2372G V2	UNO-2372G	UNO-2484G V2	UNO-2484G
CPU		Intel® Celeron® processor J6412	Intel Atom® E3845 processor Intel® Celeron® processor J1900/ J3455	Intel® Core™ processors (11th Gen)	Intel® Core™ processors (6th/7th Gen)
Memory		1 x DDR4 with 8 GB	1 x DDR3 with 4 GB	2 x DDR4 with 8 GB	1 x DDR4 with 8 GB
Storage		1 x NVMe/SATA M.2 SSD slot (2242 M-Key), 1 x 2.5" SSD/HDD Bay	1 x mSATA (shared with mPCIe), 1 x 2.5" SSD/HDD Bay	1 x NVMe/SATA M.2 SSD slot (2280 M-Key), 1 x 2.5" SSD/HDD Bay	1 x mSATA (shared with mPCIe), 2 x 2.5" SSD/HDD Bay
I/O Interface	Displays	1 x HDMI, 1 x DP	1 x HDMI, 1 x DP	1 x HDMI, 1 x DP	1 x HDMI, 1 x DP
	Audio	Line out	Line out	Line out	Line out
	USB Ports	3 x USB 3.2 1 x USB 2.0	E3845/J1900: 1 x USB 3.0, 3 x USB 2.0 J3455: 4 x USB 3.0	3 x USB 3.2 1 x USB 2.0	4 x USB 3.0
	Expansion	1 x M.2 B-Key	2 x Full-size mPCIe Slots	1 x M.2 B-Key slot	1 x Full-size mPCIe Slot for single stack version 4 x Full-size mPCIe Slots for double stack version
Antenna Hole		2 x reserved antenna hole	2 x reserved antenna hole	4 x reserved antenna hole	4 x reserved antenna hole
OS Support		Windows 10, Windows 11, Advantech Linux (Ubuntu 20.04)	Windows 7, Windows 10, Advantech Linux (Ubuntu 18.04/20.04)	Windows 10, Windows 11, Advantech Linux (Ubuntu 20.04 Desktop/ Server)	Windows 10 2021 LTSC, Windows 11, Advantech Linux (Ubuntu 22.04)
Hardware Security		TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0
Operating Temperature		-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)
Power Consumption		19W	E3845/J1900: 30W J3455: 18.4W	55W	55W
Power Input		10 ~ 36 V _{DC}	10 ~ 36 V _{DC}	10 ~ 36 V _{DC}	10 ~ 36 V _{DC}
Mechanical	Mounting	Stand, Wall (Optional VESA, DIN-rail)	Stand, Wall (Optional VESA, DIN-rail)	Stand, Wall (Optional VESA, DIN-rail)	Stand, Wall (Optional VESA, DIN-rail)
	Dimension (W x H x D)	150 x 35 x 105 mm	150 x 35 x 105 mm	200 x 40 x 140 mm	200 x 40 x 140 mm
	Weight (Net)	0.8 kg (1.76 lb)	0.8 kg (1.76 lb)	0.8 kg (1.76 lb)	0.8 kg (1.76 lb)



Expansion Kit	2nd stack expansion module for support 2 x iDoor (1 x mPCIe on UNO-2372G V2)	2nd stack expansion module for support 4 x iDoor (2 x mPCIe slot on UNO-2484G V2)
Part Number	UNO-2372G-EKCE	UNO-2484G-EKCE
I/O & Expansion	2 x iDoor (Chassis only)	2 x iDoor (Chassis only)
Dimension (W x H x D)	150 x 35 x 105 mm	200 x 40 x 140 mm
Description	UNO-2372G 2nd stack expansion module	UNO-2484G 2nd stack expansion module

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1

Edge Software & Industry Solutions

2

Intelligent HMI & Monitors

3

Automation Computers

4

Intelligent Systems

5

Mission Critical CompactPCI Platforms

6

Intelligent Transportation & Substation Certified Systems

7

Industrial Server & Cloud Solutions

8

AI & Advanced Computer Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions & Automation Controllers

14

Intelligent Motion Control Solutions

15

Data Acquisition (DAQ) Solutions

16

Remote I/O, Wireless I/O & Sensors

17

Serial/USB Communications

M2I Control Edge

NEW

NEW



Model		UNO-127	UNO-137 V2	UNO-148 V2	UNO-348
CPU		Intel Atom® x6413E processor	Intel Atom® x6413E processor Intel Atom® x6425RE processor	Intel® Core™ processors (13th Gen)	Intel® Core™ processors (10th Gen)
Memory		1 x DDR4 with 4/8 GB	1 x DDR4 with 8 GB	1 x DDR5 with 8 GB	2 x DDR4 with 8 GB
Storage		1 x eMMC (64 GB), 1 x mSATA (shared with mPCIe)	1 x SATA M.2 SSD slot (2242 M-Key)	2 x NVMe/SATA M.2 SSD slot (2280 M-Key)	2 x 2.5" HDD/SDD Bay
I/O Interface	Displays	1 x HDMI	2 x DP	2 x DP	1 x DP, 1 x HDMI
	USB Ports	2 x USB 3.2	3 x USB 3.2, 1 x USB 2.0	3 x USB 3.2, 1 x USB 2.0	4 x USB 3.2, 2 x USB 2.0
	Serial Ports	2 x RJ-45	2 x RS-232/422/485	2 x RS-232/422/485	1 x RS-232, 2 x RS-232/422/485
	Expansion	1 x Full-size mPCIe Slot	1 x Full-size mPCIe Slot, 1 x M.2 E-Key 2230, 1 x SIM Card Slot	1 x Full-size mPCIe Slot, 1 x M.2 E-Key 2230	1 x Full-size mPCIe, 1 x M.2 B-Key (UNO-348-AXX1A) 1 x PCIe x16 (UNO-348-AXX3A) 1 x PCIe x16, 2 x PCI
SIM Card Slot		Nano SIM card	Nano SIM card	Nano SIM card	Nano SIM card
Default OS		–	–	–	–
OS Support		Windows 10 LTSC, Windows 11, Ubuntu 20.04, Ubuntu Core 20	Win 10 2019 LTSC, Win 11, Advantech Linux (Ubuntu 20.04)	Windows 10 LTSC, Windows 11, AdvantechLinux	Windows 10 2019 LTSC, Windows 11, Advantech Linux(Ubuntu 18.04)
Certification		CE, FCC, UL, CCC, BSMI	CE, FCC, UL, CCC, BSMI	CE, FCC, UL, CCC, BSMI	CB, UL, CE, FCC Class A, CCC, BSMI
Hardware Security		TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0
Operating Temperature		-20 ~ 60°C (-4 ~ 140°F)	-40 ~ 70°C (-40 ~ 158°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 50°C (-4 ~ 122°F)
Power Consumption		18.5W	21W	31W	59W
Power Input		10 ~ 30 V _{DC}	10 ~ 30 V _{DC}	10 ~ 30 V _{DC} (TBD)	10 ~ 30 V _{DC}
Mechanical	Mounting	DIN-rail	DIN-rail	DIN-rail	Stand, Wall
	Dimension (W x H x D)	33.5 x 100 x 70 mm	35 x 150 x 105 mm	53 x 200 x 140 mm	UNO-348-AXX1A: 120 x 140 x 200 mm UNO-348-AXX3A: 160 x 140 x 200 mm
	Weight (Net)	0.5 kg (1.1 lb)	0.8 kg (1.7 lb)	1 kg (2.2 lb)	3.5 kg (7.7 lb)



Expansion Kit	UNO-127 2nd stack extension kit	UNO-137 V2 2nd stack extension kit	UNO-148 V2 2nd stack extension kit	UNO-148 V2 2nd stack extension kit	UNO-148 V2 2nd stack extension kit
Part Number	UNO-127-RS1EA	UNO-137-ID1EC	UNO-148-IS2EA	UNO-148-P11EA	UNO-MXM-CB01
I/O & Expansion	2 x RS-232/422/485, 2 x RS-232, 1 x GbE, 1 x M.2 B-Key (SATA/USB 3.0)	1 x iDoor slot (chassis only)	1 x iDoor slot with 1 x mPCIe slot, 1 x 2.5 SSD/HDD	1 slot for PCIe x4	1 slot for PCIe x4
Dimension (W x H x D)	30 x 100 x 70 mm	35 x 150 x 105 mm	35 x 200 x 140 mm	45 x 200 x 140 mm	57 x 200 x 140 mm
Description	UNO-127 2nd stack extension kit for 4 x COM & 1 x LAN	UNO-137 V2 2nd stack extension kit for iDoor	UNO-148 2nd stack extension kit for iDoor & SSD/HDD	UNO-148 2nd stack extension kit for PCIe card	UNO Carrier Stack support MXM GPU module aim for image processing and AI inference

✓: supported, –: not supported, △: optional

Application-Oriented Edge

NEW



Model	UNO-247	UNO-238	UNO-238 V2	UNO-220-P4N1AE	UNO-220-P4N2AE
CPU	Intel® Celeron® processor J3455	Intel® Core™ processors (8th Gen)	Intel® Core™ processors (12th Gen)	Industrial Raspberry Pi 4 IoT Gateway Kit	
Memory	1 x DDR3L SO-DIMM Slot	1 x DDR4 SO-DIMM Slot	2 x DDR5 SO-DIMM slot	-	
Storage	1 x mSATA, 1 x 2.5" SSD/HDD Bay	32 GB eMMC	1 x M.2 B-Key 2242 1 x M.2 M-Key 2280	1 x micro SD Slot (8 GB)	
I/O	2 x USB 3.0, 2 x USB 2.0, 4 x RS-232, 2 x RS-485	4 x USB 3.2, 2 x RS-232/422/485, 1 x GPIO, 1 x Line out	2 x CAN Bus, 4 x USB 3.2, 2 x Type-C, 1 x GPIO	1 x RS232/RS485, 4 x GPIO	1 x RS232/RS485, 8 x GPIO
Displays	1 x HDMI, 1 x VGA	1 x HDMI, 1 x DP	1 x HDMI, 1 x DP	-	
PCIe/PCI Expansion	1 x Full-size mPCIe Slot, 1 x M.2 E-Key 2230	1 x M.2 B-Key 3042, 1 x M.2 E-Key 2230	1 x M.2 B-Key 3042/3052, 1 x M.2 E-Key 2230	-	
SIM Card Slot	Micro SIM card	Nano SIM card	Nano SIM card	-	
OS Support	Windows 10 2019 LTSC, Linux	Windows 10 LTSC, Windows 11, Linux	Windows 10 LTSC, Windows 11, Linux	Linux (Raspbian)	
Hardware Security	△	TPM 2.0	TPM 2.0	△	TPM 2.0
Operating Temperature	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	0 ~ 50°C (32 ~ 122°F)	0 ~ 50°C (32 ~ 122°F)	
Power Input	12 V _{DC} (bundle 110-240V _{AC} adapter)	12 V _{DC} (bundle 110-240V _{AC} adapter)	12~24V _{DC}	5V _{DC} via USB-C connector @ 3.0A or IEEE 802.3at PoE-PD	
Power Consumption	17 W @ 12 V _{DC}	31W @ 12 V _{DC}	30-60W	15W	
Mechanical	Mounting	Stand, Wall (Optional DIN-rail)	Stand, Wall (Optional DIN-rail)	Stand, Wall (Optional DIN-rail)	
	Dimension (W x H x D)	200 x 50 x 140 mm	150 x 60 x 107 mm	150 x 60 x 107 mm	100 x 32 x 70 mm 100 x 40 x 70 mm
	Weight (Net)	1.0 kg (2.2 lb)	1.8 kg (3.96 lb)	1.8 kg (3.96 lb)	0.5 kg (1.1 lb)

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1

Edge Software & Industry
Solutions

2

Intelligent HMI & Monitors

3

Automation Computers

4

Intelligent Systems

5

Mission Critical CompactPCI
Platforms

6

Intelligent Transportation &
Substation Certified Systems

7

Industrial Server & Cloud
Solutions

8

AI & Advanced Computer
Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions &
Automation Controllers

14

Intelligent Motion Control
Solutions

15

Data Acquisition (DAQ)
Solutions

16

Remote I/O, Wireless I/O
& Sensors

17

Serial/USB Communications

Domain Specific Edge



Model		UNO-410	UNO-430	UNO-430 EXP
Certification		CID2, ATEX, CE, FCC, UL, CCC, BSMI	CE, FCC, UL, CCC, BSMI	CID2, ATEX, CE, FCC, UL, CCC, BSMI
Ingress Protection		IP40	IP69K, IP68	IP66
CPU		Intel Atom® E3940 processor	Intel Atom® E3950 processor	
Memory		1 x SO-DIMM with 8 GB DDR3L	1 x SO-DIMM with 8 GB DDR3L	
Storage		1 x 2.5" SSD/HDD Bay, 1 x M.2 B-Key	1 x M.2 B-Key	
I/O Interface	Displays	2 x DP	1 x DP	
	Expansion	1 x Full-size mPCIe Slot, 1 x M.2 B-Key, 1 x SIM Card Slot	1 x M.2 B-Key, 1 x M.2 E-Key	
	USB Ports	3 x USB 3.2, 1 x USB 2.0	2 x Internal USB	
	Serial Ports	2 x RS-232/422/485	2 x RS-232/422/485, 1 x RS-232 (Console)	
	General Digital I/O	8-ch DI, 8-ch DO	-	
SIM card slot		Nano SIM card	Standard SIM card	
OS Support		Windows 10 2019 LTSC, Linux	Windows 10 2019 LTSC, Linux	
Hardware Security		TPM 2.0	TPM 2.0	
Operating Temperature		-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)	
Power Consumption		21W	21W	
Power Input		10 ~ 36 V _{DC}	10 ~ 36 V _{DC}	
Mechanical	Mounting	DIN-rail	Wall	
	Dimension (W x H x D)	70 x 150 x 105 mm	200 x 200 x 68 mm	
	Weight (Net)	1 kg (2.2 lb)	3 kg (6.61 lb)	3.7 kg (8.16 lb)

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iDoor Technology Modules

iDoor Multiple I/O & Peripherals



Model	PCM-2300MR	PCM-23U1DG	PCM-24U2U3	PCM-23C1CF
Description	MR4A16B, MRAM, 2 /4 MB, mPCIe	USB slot with lock for USB dongle, half-size mPCIe	2 ports USB 3.0, mPCIe, USB Type-A	1 slot Cfast iDoor for CFast Gen3 card

iDoor Wire/ Wireless Communication



mPCIe Model	PCM-24S2WF	PCM-24S34G	PCM-24R1TP	PCM-24R2PE	PCM-24R2GL
Description	Wi-Fi 802.11 a/b/g/n 2T2R w/Bluetooth 4.0, half-size mPCIe, antennas	LTE/HSPA+/GPRS and GPS, full-size mPCIe, 4G/GPS antennas	1 port Gigabit Ethernet, Intel® I225, 2.5Gb/s, TSN, mPCIe, RJ-45	2 ports Gigabit Ethernet, IEEE 802.3af (PoE)-compliant, mPCIe, RJ-45	2 ports Gigabit Ethernet, Intel® I350, mPCIe, RJ-45
M.2 Model	-	-	PCM-34R1TP	PCM-34R2PE	PCM-34R2GL
Description	-	-	1 port Gigabit Ethernet, Intel® I225, 2.5Gb/s, TSN, B+M key (3042, PCIe1), RJ-45	2 ports Gigabit Ethernet, IEEE 802.3af (PoE)-compliant, B+M key (2242, PCIe1), RJ-45	2 ports Gigabit Ethernet, Intel® I350, B+M Key (2242, PCIe1), RJ-45

iDoor Smart I/O & Communication



mPCIe Model	PCM-24D2R4	PCM-24D2R2	PCM-24D4R4	PCM-24D4R2	PCM-27D24DI
Description	2 ports Isolated RS-422/485, mPCIe, DB9	2 ports Isolated RS-232, mPCIe, DB9	4 ports non-isolated RS-422/485, mPCIe, DB37 cable	4 ports non-isolated RS-232, mPCIe, DB37 cable	24 channels isolated digital I/O with counter, mPCIe, DB37
M.2 Model	PCM-34D2R4	PCM-34D2R2	PCM-34D4R4	PCM-34D4R2	PCM-37D24DI
Description	2 ports Isolated RS-422/485, B key (2242, USB), DB9	2 ports Isolated RS-232, B key (2242, USB), DB9	4 ports non-isolated RS-422/485, B key (2242, USB), DB37 cable	4 ports non-isolated RS-232, B key (2242, USB), DB37 cable	24 channels isolated digital I/O with counter, B+M key (3042, PCIe1), DB37

iDoor Industrial Fieldbus Communication

CANopen

PROFIBUS

PROFINET

EtherCAT

EtherNet/IP



Model	PCM-26D2CA	PCM-26D1DB	PCM-26R2PN	PCM-26R2EC	PCM-26R2EI
Description	2 ports isolated CANBus mPCIe, CANopen, DB9	1 port Hilscher netX100 Fieldbus mPCIe, Profibus, DB9	2 ports Hilscher netX100 Fieldbus mPCIe, Profinet, RJ-45	2 ports Hilscher netX100 Fieldbus mPCIe, EtherCAT, RJ-45	2 ports Hilscher netX100 Fieldbus mPCIe, EtherNet/IP, RJ-45

iDoor Accessories



Model	PCM-28P1AD	PCM-28P1BK
Description	PCIe to mPCIe, 2-slot mPCIe, iDoor I/O plate expansion	iDoor PCIe I/O plate

1

Edge Software & Industry Solutions

2

Intelligent HMI & Monitors

3

Automation Computers

4

Intelligent Systems

5

Mission Critical CompactPCI Platforms

6

Intelligent Transportation & Substation Certified Systems

7

Industrial Server & Cloud Solutions

8

AI & Advanced Computer Vision

9

Video Infrastructure Solutions

10

Network & Security Solutions

11

Industrial Communication

12

Industrial Gateways

13

EtherCAT Solutions & Automation Controllers

14

Intelligent Motion Control Solutions

15

Data Acquisition (DAQ) Solutions

16

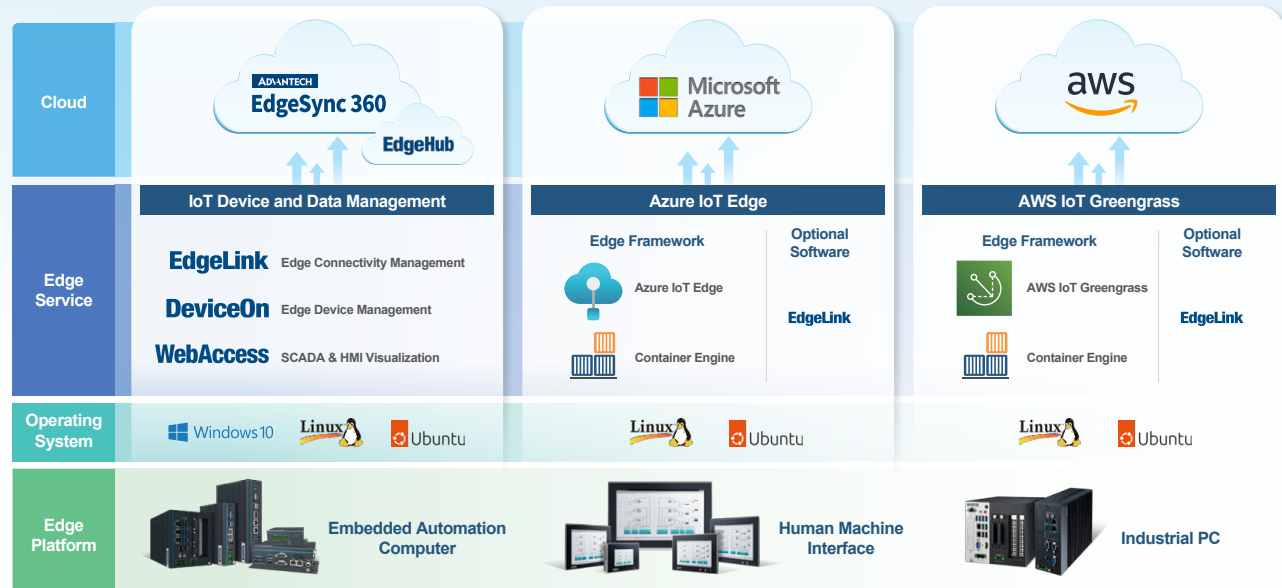
Remote I/O, Wireless I/O & Sensors

17

Serial/USB Communications

Edge Service Packages

Scaling Digitalization with Edge Services



As developments in the application space continue with micro-services and packaged business capabilities, customers are becoming more demanding, particularly around the services required for IoT-related projects. Consequently, the impact is that the priority for many vendors is no longer the IoT platform but the applications and services supported by the platform. **Edge-as-a-Service** encompasses the integration of hardware, edge software, and corresponding cloud services for efficient edge orchestration. The synergy between edge and cloud is pivotal for successful digital transformation.

To align with edge computing trends, Advantech presents two edge service packages; Azure IoT Edge and AWS IoT Greengrass. The packages are designed to cater to Advantech hardware platforms and third-party software applications, offering enhanced flexibility and user experience. Featuring a wide selection of hardware that is Azure IoT Edge or AWS IoT Greengrass certified, Advantech ensures users can develop custom solutions by selecting preferred hardware and edge service packages according to their targeted cloud service or specifications, helping customers develop IoT-enabled applications in an optimized way.

Aside from public clouds, Advantech provides EdgeSync 360 to revolutionize device and data management across various industrial applications. This suite of software products, including EdgeLink, DeviceOn, WebAccess, and EdgeHub, is designed to enhance operational efficiency, security, and data-driven decision-making in industrial environments. Overall, Advantech provides diverse edge-as-a-service solutions to deliver device control, edge monitoring, and software management services, facilitating the seamless scaling of digitalization through accelerated deployment and integration.

Scaling Digitalization with
IoT-Enabling Applications
Cloud-Based Edge Service Packages



Learn More: https://www.advantech.com/en/products/edge-service-packages/sub_e38b7777-e3d7-45b6-a6d9-681289fcc6af

