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Automation Computers

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Advantech Industrial

Ideal for diverse edge computing applications

Machine Builder

Equipment Facility

Factory Automation



Machine
Control



Protocol
Conversion



CODESYS

WISE-EdgeLink

WebAccess/HMI

WebAccess/SCADA



M2I Control Edge
UNO-100/ UNO-300



Industrial Computing 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 is adapted for different kinds of embedded automation applications. The units can be easily integrated with Advantech WISE-PaaS software which helps bridge the gap between IT and OT. UNO-2000 is suitable for individual design requirements that enable flexible and manageable configurations.

Intelligent Edge

that bridge OT to IT seamlessly

Building Automation

Public Utility

Oil & Gas

Visualization



Predictive Maintenance



Data Analytics

WISE-DeviceOn

aws qualified device

Microsoft Azure

EDGE X FOUNDRY™



IoT Gateway Edge
WISE-700/ UNO-200



Domain Specific Edge
UNO-400

IoT Gateway Edge

Advantech's WISE-7 and UNO-2 series are the bridge for data from edge devices to the cloud and play 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 Giga LAN and high speed RF technologies. With UNO-2 series installed, your system will benefit from video output features that will allow you to visualize information on a dashboard and monitor.

Domain Specific Edge

Advantech's UNO-400 offers domain-focused edge gateways which satisfy diverse industry requirements. For smart infrastructure and industrial manufacturing, UNO-420 PoE powered Sensing Gateway ensures less cabling and easy installation in awkward or remote locations that may be difficult to reach with a power cable. Flexible programmable GPIO supports both 8-channel ADC and DAC for data acquisition. UNO-410 supports C1D2+IEC ATEX (opentype) certification and wide temperature ranges from -40~70°C, which are perfect for control cabinet usage. The new UNO-430 IP66 ruggedized outdoor gateways support C1D2 + ATEX (standalone) certification which are suitable for outdoor usage with waterproof and dustproof features along with -40~70°C wide temperature range support.

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Intelligent Edge DAQ Devices

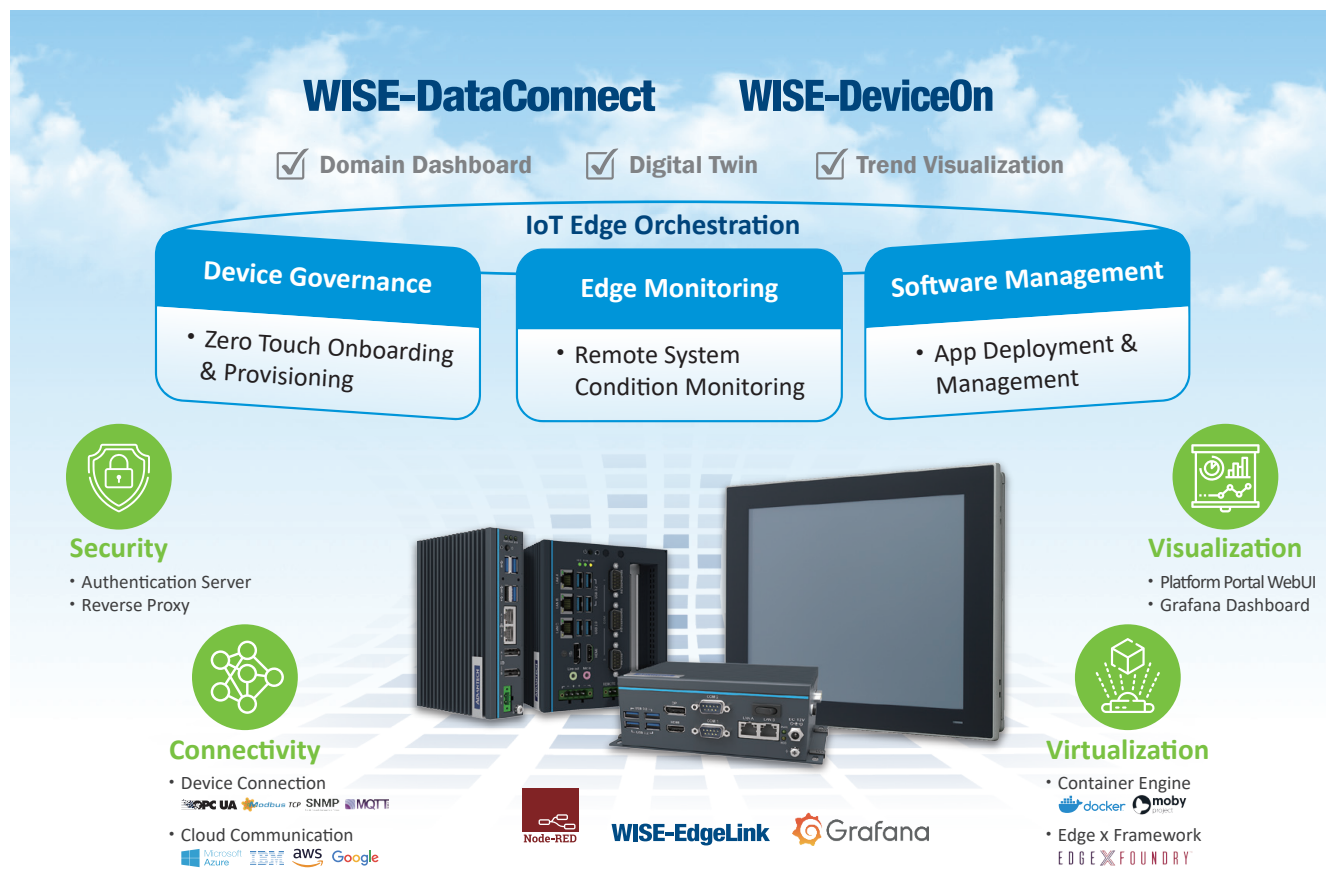
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Serial Communication

Edge Intelligence 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.

Advantech's Edge Services solution was developed to shift from offering stand-alone IoT platforms to IoT-enabled applications. Aligned with Advantech's WISE-DataConnect open cloud-based industrial IoT platform, our device management portal is used for real-time monitoring and zero-touch software deployment. All data, such as CPU performance, temperature, and input voltages collected from different platforms can be standardized for integration and visualization using WISE-DataConnect.

The intuitive user interface allows customers to easily deploy software, firmware, and docker containers remotely via a web browser. With advanced integration functions, WISE-DataConnect can accelerate the setup of domain application command centers. Overall, with the aid of our Edge Services, companies can focus on their business insights and realize business value faster.

Scaling Digitalization with IoT-Enabling Applications

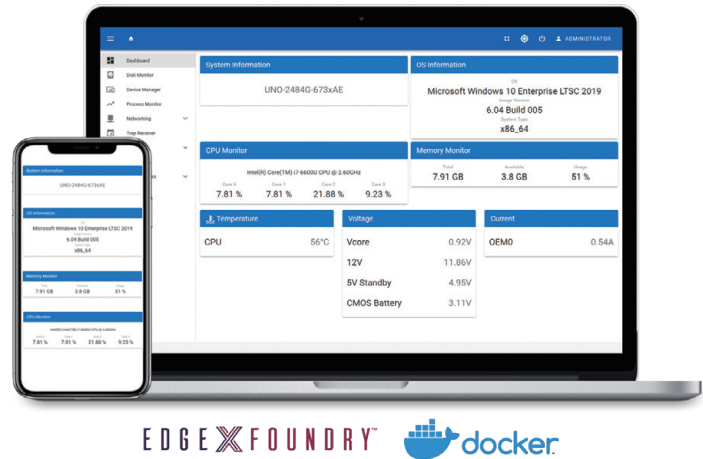
Cloud-Based WISE-DataConnect Edge Intelligence



Learn More: <https://page.advantech.com/en/global/industrial-automation/embedded-automation-computers/edge-intelligence-services>

Accelerating Digital Transformation with Advantech's Platform Portal

Advantech's Platform Portal was developed for aggregating all process and application information at the edge and visualizing the data on a webpage that can be easily accessed by users. The Platform Portal employs container technology that can be implemented on all Advantech IT gateway devices. Moreover, the Portal's secure open-software architecture enables users/developers to access the system via a HTML browser and integrate unique analytics and connectors.



EDGE X FOUNDRY™ 



Hardware Monitoring

- Status monitoring and diagnostics
- Event alarms and notifications



Software Monitoring

- Process monitoring and shutdown
- Software installation and updates



Communication Configuration

- Network configuration
- Cloud protocol configuration

Optimizing Smart Device Management with WISE-DataConnect

Advantech's WISE-DataConnect is an open cloud-based industrial IoT platform that provides a device management portal for real-time monitoring and zero-touch software deployment. All data, such as CPU performance, temperature, and input voltage, collected from different platforms can be standardized for integration and visualization using WISE-DataConnect. The intuitive user interface allows customers to easily deploy software, firmware, and docker containers remotely via a web browser. With advanced integration functions, WISE-DataConnect can accelerate the setup of domain application command centers.



Device connection setup
& configuration



Real time trend &
monitoring



Device event history



Firmware OTA
management & update



Platform software
installation management



Remote configuration
setup management

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M2I Control Edge

NEW



NEW



NEW



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Model	UNO-127	UNO-137	UNO-148	UNO-348
Certification	CE, FCC, UL, CCC, BSMI	CE, FCC, UL, CCC, BSMI	CE, FCC, UL, CCC, BSMI	CE, FCC, UL, CCC, BSMI
CPU	Intel® Atom® Quad core x6413E, 1.5 GHz	Intel® Atom® E3940, 1.6 GHz	Intel® Core™ i7-1185G7E Quad-core, 1.8 GHz, Intel® Core™ i5-1145G7E Quad-core, 1.5 GHz, Intel® Core™ i3-1115G4E Dual-core, 2.2 GHz	Intel® Core™ i5-10500TE, 2.3 GHz, 6 cores Intel® Core™ i9-10900TE, 1.8 GHz, 10 cores
Onboard RAM	Built-in 4/8 GB DDR4	Built-in 8 GB DDR3L	Built-in 8 GB DDR4	Built-in 8/16 GB DDR4L, up to 64 GB
Display	1 x HDMI	2 x DP	2 x DP	1 x DP, 1 x HDMI
I/O	2 x USB, 2 x GbE	2 x isolated RS232/422/485, 2 x GbE, 4 x USB, 8 x DI, 8 x DO	4 x isolated RS-232/422/485, 3 x GbE, 4 x USB, 8 x DI, 8 x DO	2 x RS-232/422/485, 1 x RS-232, 3 x GbE, 6 x USB
PCIe/PCI Expansion	1 x Full size mPCIe/ mSATA	1 x Full-size mPCIe 1 x M.2 B key (SATA/USB 3.0)	1 x Full size mPCIe, 1 x M.2 E key (PCIe), 1 x M.2 B key (SATA/USB 3.0)	1 x Full-size mPCIe; UNO-348-AXX1A: 1 x PCIe16; UNO-348-AXX3A: 1 x PCIe16, 2 x PCI
Storage	64G eMMC	1 x 2.5" HDD/SDD bay	1 x M.2 M key (PCIe x 4)	2 x 2.5" HDD/SDD bay, 1 x M.2 B key (SATA/USB 3.0)
SIM Card Slot	–	1 (nano)	1 (nano)	1 (nano)
Default OS	–	–	–	–
Operating Systems	Win10, Win10 LTSC, Ubuntu Core 20, Ubuntu 20.04, AdvLinux	Win10, Win10 LTSC, AdvLinux	Win10, Win10 LTSC, AdvLinux	Win10, Win10 LTSC, AdvLinux
TPM	TPM 2.0 onboard	TPM 2.0 onboard	TPM 2.0 onboard	TPM 2.0 onboard
Mounting	DIN rail	DIN rail	DIN rail	Wall mount, Stand mount
Power Input Range	10 ~ 30 V _{DC}	10 ~ 36 V _{DC}	10 ~ 36 V _{DC}	10 ~ 36 V _{DC}
Operating Temperature	-20 ~ 60 °C	-40 ~ 70°C	-20 ~ 60 °C	-20 ~ 50°C
Power Consumption Typical	18.5W	21W	31W	59W
Dimensions (W x D x H)	33.5 x 70 x 100mm (1.3 x 2.8 x 3.9 in)	35 x 105 x 150 mm (1.4 x 4.1 x 5.9 in)	35 x 140 x 200mm (1.4 x 5.5 x 7.8 in)	UNO-348-AXX1A: 200 x 140 x 120 mm (7.8 x 5.5 x 4.7 in) UNO-348-AXX3A: 200 x 140 x 160 mm (7.8 x 5.5 x 6.3 in)
Weight	0.5 kg	1 kg	1 kg	3.5 kg



Expansion Kit	Second-stack extension kit to support 4 x COM + 1 x GbE on UNO-127	Second-stack extension kit to support 1 x iDoor on UNO-137	Second-stack extension kit to support 1 x iDoor slot + 1 x 2.5" SSD/HDD slot on UNO-148	Second-stack extension kit to support 1 slot for PCIe x 4 on UNO-148
Part Number	UNO-127-RS1EA	UNO-137-ID1EA	UNO-148-IS2EA	UNO-148-P11EA
Ports	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 x 4
Dimensions	30 x 70 x 100mm (1.18 x 2.8 x 3.9 in)	35 x 105 x 150 mm (1.4 x 4.1 x 5.9 in)	45 x 140 x 200 mm (1.7 x 5.5 x 7.8 in)	45 x 140 x 200 mm (1.7 x 5.5 x 7.8 in)
Description	UNO-127 2nd stack extension kit for 4 x COM & 1 x LAN	UNO-137 2nd stack extension kit for iDoor	UNO-148 2nd stack extension kit for iDoor & SSD/HDD	UNO-148 2nd stack expansion kit for PCIe card

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

Industrial Computing Edge

NEW

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Model	UNO-2271G V2	UNO-2372G	UNO-2484G V2
CPU	Intel® Celeron® Dual core N6210 1.2GHz Elkhart lake Intel® Celeron® Dual core N6415 1.2GHz Elkhart lake	Intel® Celeron J6412 2.0GHz Quad core Elkhart lake	Intel® Core™ i7-1185G7E 1.8GHz Tigerlake Quad Core Intel® Core™ i5-1145G7E 1.5GHz Tigerlake Quad Core Intel® Core™ i3-1115G4E 2.2GHz Tigerlake Dual Core Intel® Celeron® 6305E 1.8GHz dual core
Onboard RAM	4GB/ 8GB DDR4	8 GB DDR4, up to 32 GB	8 GB DDR4, up to 64 GB
Display	1 x HDMI	1 x DP++, 1 x HDMI1.4	1 x DP++, 1 x HDMI1.4
Audio	–	Line out	Line out
I/O	2 x USB 3.0 2 x GbE	1 x USB 3.0 3 x USB 2.0 2 x GbE 4 x RS-232/422/485	3 x USB 3.2 Gen2 1 x USB 2.0 4 x GbE 4 x RS-232/422/485
Hardware Security	TPM 2.0	TPM 2.0	TPM 2.0
Expansion Slot	1 x Full-size mPCIe/mSATA slot	1 x M.2 B key slot (USB Signal for 3042/3052 LTE/5G Module, SATA Signal for 2242 storage) 1 x M.2 E key (PCIe x 1/ USB2.0 for Wifi Module)	1 x M.2 B key slot (USB Signal for 3042/3052 LTE/5G Module, SATA Signal for storage) 1 x M.2 M key (PCIe x 4)
Onboard Storage	32 GB eMMC	–	–
Storage Expansion	1 x mSATA shared with mPCIe slot	1 x mPCIe slot 1 x 2.5" HDD/SDD bay	2 x mPCIe slot (PCIe, USB 2.0 Signal) 1 x 2.5" HDD/SDD bay
Antenna Hole	2 x reserved antenna hole	2 x reserved antenna hole	4 x reserved antenna hole
Operating Systems	Win10, Win10 LTSC, Ubuntu Core 20, Ubuntu 20.04, AdvLinux	Win10, Win10 LTSC, AdvLinux	Win10, Win10 LTSC, AdvLinux
Mounting	Stand, Wall (Optional VESA, DIN rail)	Stand, Wall (Optional VESA, DIN rail)	Stand, Wall (Optional VESA, DIN rail)
Operating Temperature	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)	-20 ~ 60°C (-4 ~ 140°F)
Power Consumption Typical	12 W	18.4 W	55 W
Power Input Range	10 ~ 30 V _{DC}	10 ~ 36 V _{DC}	10 ~ 36 V _{DC}
Dimensions (W x D x H)	100 x 70 x 30 mm (3.9" x 2.8" x 1.2")	150 x 105 x 35 mm (5.8" x 4.2" x 1.4")	200 x 140 x 40 mm (7.8" x 5.6" x 1.6")
Weight	0.5 kg	0.8 kg	1.4 kg



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	2nd stack expansion module for support 2 x iDoor (1 x mPCIe on UNO-2372G V3)	2nd stack expansion module for support 4 x iDoor (2 x mPCIe slot on UNO-2484G V2)
Part Number	UNO-2271G-EKBE	UNO-2271G-RP1EA	UNO-2271G-RS2EA	UNO-2372G-EKCE	UNO-2484G-EKCE
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)	2 x iDoor (Chassis only)	2 x iDoor (Chassis only)
Dimensions	100 x 70 x 30 mm	100 x 70 x 30 mm	100 x 70 x 30 mm	150 x 155 x 35 mm	200 x 140 x 40 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	UNO-2372G 2nd stack expansion module	UNO-2484G 2nd stack expansion module for 4 iDoor

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IoT Gateway Edge

NEW

WISE-DeviceOn



RaspberryPi



NEW

RaspberryPi



Model	UNO-247	UNO-238	UNO-220 Raspberry Pi 4 IoT Gateway Kit	
CPU	Intel® Celeron® J3455 1.5GHz	Intel® i7-8665UE Intel® i5-8365UE Intel® i3-8145UE	-	
Onboard RAM	-	-	-	
Display	1 x HDMI 1 x VGA	1 x HDMI 1 x DP	-	
I/O	2 x USB 2.0 2 x USB 3.0 4 x RS-232 2 x RS485 2 x GbE	2 x RS-232/422/485 2 x LAN 4 x USB 1 x 8-bit GPIO 1 x Line out	4 x GPIO 1 x RS232/RS485	8 x GPIO 1 x RS232/RS485
PCIe/PCI Expansion	1 x Full size mPCIe slot 1 x M.2 E key	1 x 3042 M.2 (B Key), 1 x 2230 M.2 (E Key)	-	
Storage	-	Built-in 32G eMMC	8GB Micro SD card	
SIM Card Slot	1 x Micro SIM card slot	1 x Nano SIM card slot	-	
Operating Systems	Win10, Win10 LTSC, AdvLinux	Win10, Win10 LTSC, AdvLinux	Linux (Raspbian)	
TPM	Supported by project	TPM 2.0	-	TPM 2.0
Mounting	Stand, Wall (Optional Din rail)	Stand, Wall (Optional Din rail)	Stand, Wall (Optional Din rail)	
Power Input Range	12 V _{DC} (bundle 110-240V _{AC} adapter)	12 V _{DC} (bundle 110-240V _{AC} adapter)	5 V _{DC} Min 3A (USB Type C)	
Operating Temperature	-20 ~ 60°C/-4 ~ 140°F	-20 ~ 60°C/-4 ~ 140°F	0 ~ 50°C (32~122°F)	
Power Consumption Typical	17W	31W	15W	
Dimensions (W x D x H)	200 x 140 x 50 mm (7.8" x 5.5" x 1.9")	150 x 107 x 60 mm (5.91 x 4.22 x 2.36 in)	100 x 70 x 32 mm (3.9" x 2.8" x 1.26")	100 x 70 x 40 mm (3.9" x 2.8" x 1.57")
Weight	1 kg	1.8 kg	0.5 kg	

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

Domain Specific Edge

NEW



WISE-EdgeLink



NEW



Model	UNO-410	UNO-420	UNO-430	UNO-430 EXP
Certification	C1D2, ATEX, CE, FCC, UL, CCC, BSMI	CE, FCC, UL, CCC, BSMI	CE, FCC, UL, CCC, BSMI	C1D2, ATEX, CE, FCC, UL, CCC, BSMI
Protection	IP40	IP40	IP69K, IP68	IP66
CPU	Intel® Atom® E3950 quad core, 1.6GHz	Intel® Atom® E3815, 1.46 GHz	Intel® Atom® E3950 quad core, 1.6GHz	Intel® Atom® E3950 quad core, 1.6GHz
Onboard RAM	Built-in 8GB DDR3L	Onboard 2GB DDR3L	Built-in 8GB DDR3L	Built-in 8GB DDR3L
Onboard Storage	–	32GB eMMC	–	–
Hardware Security	Onboard TPM 2.0	Onboard TPM 2.0	Onboard TPM 2.0	Onboard TPM 2.0
Display	2 x DP	1 x HDMI	1 x DP (internal maintenance interface)	1 x DP (internal maintenance interface)
I/O	2 x isolated RS-232/422/485 4 x USB3.1 Isolated 8DI/ 8DO 2 x GbE	2 x RS-232/422/485 1 x RS-485 2 x GbE (1 x PoE-IN) 1 x USB3.0	2 x isolated RS-422/485 1 x RS-232 (console) 2 x GbE 2 x USB (internal maintenance interface)	2 x isolated RS-422/485 1 x RS-232 (console) 2 x GbE 2 x USB (internal maintenance interface)
PCIe/PCI Expansion	1 x Full-size mPCIe	1 x Full-size mPCIe slot 1 x Half-size mPCIe slot	1 x M.2 B key (USB3.0) 1 x M.2 E key (PCIe/USB2.0)	1 x M.2 B key (USB3.0) 1 x M.2 E key (PCIe/USB2.0)
Storage	1 x M.2 B key (SATA, USB3.0) 1 x 2.5" SSD bay	1 x M.2 B-key (SATA)	1 x M.2 B-key (SATA)	1 x M.2 B-key (SATA)
SIM Card Slot	1 (nano)	1 (micro)	1 (standard)	1 (standard)
Operating Systems	Win10, Win10 LTSC, AdvLinux	Win10, Win10 LTSC, Ubuntu Core 20, Ubuntu 20.04, AdvLinux	Win10, Win10 LTSC, AdvLinux	Win10, Win10 LTSC, AdvLinux
Mounting	Din rail	Wall mount	Wall mount	Wall mount
Power Input Range	10 ~ 36 V _{DC}	10 ~ 30 V _{DC}	10 ~ 36 V _{DC}	10 ~ 36 V _{DC}
Operating Temperature	-40 ~ 70°C (-40 ~ 158°F)	-20 ~ 60°C (-4 ~ 140°F)	-40 ~ 70°C (-40 ~ 158°F)	-40 ~ 70°C (-40 ~ 158°F)
Power Consumption Typical	21W	12W (typical)	21W (typical)	21W (typical)
Dimensions (W x D x H)	70 x 105 x 150 mm (2.8 x 4.1 x 5.9in)	125 x 125 x 50 mm (4.9 x 4.9 x 1.96in)	200 x 68 x 200 mm (7.87 x 7.87 x 2.67in)	200 x 68 x 200 mm (7.87 x 7.87 x 2.67in)
Weight	1 kg	1.5 kg	3 kg	3 kg

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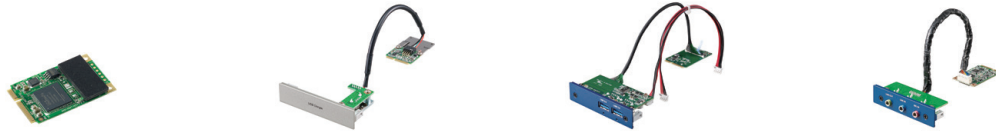
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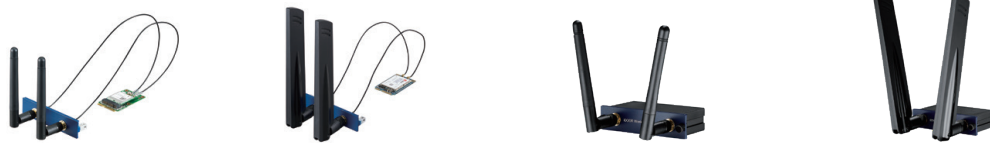
iDoor Technology Modules

iDoor Multiple I/O & Peripheral



Model	PCM-2300MR	PCM-23U1DG	PCM-24U2U3	PCM-27J3AU
Description	MR4A16B, MRAM, 2 MB, mPCle	USB slot w/ lock for USB dongle, half-size mPCle	2-port USB 3.0, mPCle, USB-A type	3-port audio stereo, mPCle, 3.5-mm jack

iDoor Wireless Communication



Model	PCM-24S2WF	PCM-24S34G	PCM-24BXWF	PCM-24BX4G
Description	Wi-Fi 802.11 a/b/g/n 2T2R w/ Bluetooth 4.0, half-size mPCle, antennas	LTE/HSPA+/GPRS and GPS, full-size mPCle, 4G/GPS antennas	Wi-Fi 802.11 a/b/g/n 2T2R w/ Bluetooth 4.0, idoor box, antennas	4G Cat.6, LTE-A/UMTS/HSPA+, idoor box, 4G/GPS antennas

iDoor Industrial Fieldbus Communication



Model	PCM-26D2CA	PCM-26D1DB	PCM-26R2PN	PCM-26R2EC	PCM-26R2EI	PCM-26R2S3	PCM-26R2PL
Description	2-port isolated CANBus mPCle, CANopen, DB9	1-port Hilscher netX100 FieldBus mPCle, Profibus, DB9	2-port Hilscher netX100 FieldBus mPCle, Profibus, RJ45	2-port Hilscher netX100 FieldBus mPCle, EtherCAT, RJ45	2-port Hilscher netX100 FieldBus mPCle, EtherNet/IP, RJ45	2-port Hilscher netX100 FieldBus mPCle, Sercos III, RJ45	2-port Hilscher netX100 FieldBus mPCle, Powerlink, RJ45

iDoor Smart I/O & Communication



Model	PCM-24D2R4	PCM-24D2R2	PCM-24D4R4	PCM-24D4R2	PCM-24R1TP	PCM-24R2PE	PCM-24R2GL	PCM-27D24DI
Description	2-port Isolated RS-422/485, mPCle, DB9	2-port Isolated RS-232, mPCle, DB9	4-port non-isolated RS-422/485 mPCle, DB37 cable	4-port non-isolated RS-232 mPCle, DB37 cable	1-port Gigabit Ethernet, Intel® i225 TSN, mPCle, RJ45	2-port Gigabit Ethernet, IEEE 802.3af (PoE)-compliant, mPCle, RJ45	2-port Gigabit Ethernet, Intel® i350, mPCle, RJ45	24-ch isolated digital I/O with counter mPCle, DB37

iDoor Accessories



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

iDoor Industrial Domain Application



Model	PCM-29R1TX
Description	1-Port iLink(TX), Long Distant Display Out, RJ45

