

Selection Guide

Memory/Storage/ External I/O

Model Name	PCM-2300MR	PCM-2300TP	PCM-23C1CF	PCM-23U1DG
Description	MR4A16B, MRAM, 2MByte	Trusted Platform Module (TPM)	CFast, Ejection Type I, CFast x 1	Internal Locked USB Slot for USB Dongle, USB x 1
Spec	• 2MB MRAM Storage • Speed 6 MB/Sec	• Compliant with TCG 1.2 • Via LPC connector	• 1 port CFast I/O card • CFast 3.0, Type I/II	• 1 port USB I/O card • USB A type w/ lock

Communication

Model Name	PCM-24D2R4	PCM-24D2R2	PCM-24D4R4	PCM-24D4R2	PCM-24R2PE	PCM-24R2GL
Description	OXPCIe952 UART, Isolated RS-422/485, DB9 x 2	OXPCIe952 UART, Isolated RS-232, DB9 x 2	OXPCIe954 UART, Non-Isolated RS-422/485, DB37 x 1	OXPCIe954 UART, Non-Isolated RS-232, DB37 x 1	Intel i350, GbE, PoE IEEE 802.3af, PD, RJ45 x 2	Intel i350 PCIe, GbE, IEEE 802.3ab, RJ45 x 2
Spec	• 2000Vdc isolation protection • RTS/CTS/Xon/Xoff flow control		• Non isolation 4 COM ports • 50 bps ~ 921.6 kbps serial speed(RS-422/485)		• 2 port PoE (Power Over Ethernet) • Single port 15.4W of DC power	• 2 port GbE LAN • Intel i350

Model Name	PCM-24R1TP	PCM-24U2U3	PCM-24S2WF	PCM-24S23G	PCM-24S24G
Description	Intel 82574L, GbE, IEEE 1588 PTP, RJ45 x 1	USB 3.0 mPCIe Express Card, USB x 2	Atheros AR9462, 802.11 a/b/g/n 2T2R w/ BT4.0, SMA x 2	6-band HSPA Cellular Module, GPS, SIM Holder, SMA x 2	LTE Bands, UMTS/HSPA Bands, GPS/GPRS Bands, SMA x 2
Spec	• 1 port GbE LAN • IEEE 1588 precision time protocol ready	• 2 port USB 3.0 • USB A type	• Atheros AR9462 • 802.11 a/b/g/n 2T2R w/ Bluetooth 4.0	• 3.75G HSPA+GPS • 2 SIM holders with switch for redundancy	• LTE/UMTS/HSPA/GPS/GPRS bands • 2 SIM holders with switch for redundancy

Fieldbus Protocol

Model Name	PCM-26D2CA	PCM-26D1PB	Model Name	PCM-27D24DI
Description	SJA1000 CANBus, CANOpen, DB9 x 2	Hilscher netX100 FieldBus, ProfiBus, DB9 x 1	Description	Digital I/O, 16 DI / 8 DO, Isolation, DB37 x 1
Spec	• CAN 2.0 A/B • 1Mbps, 16MHz	• Hilscher netX100 • 9.6kbps~12Mbps	Spec	• 16DI, 8DO • 2500Vdc isolation protection

Digital/ Analog I/O

Model Name	PCM-27D24DI
Description	Digital I/O, 16 DI / 8 DO, Isolation, DB37 x 1
Spec	• 16DI, 8DO • 2500Vdc isolation protection

Naming Convention

PCM - 2 6 D 2 C A

Category	Connector	Port
23-Memory / Storage / External I/O	R-RJ45	C-CFast
24-Communication	D-DB9	S-SMA/DFP/SD
25-Display	U-USB	H-HDMI/DP
26-Fieldbus		0-No Connector
27-Digital/Analog I/O		1-One Connector
		2-Two Connectors

Function	CA-CANOpen	OF-Optical Fiber	DI-Digital I/O	U3-USB 3.0
PB-ProfiBus	PL-PowerLink	PE-PoE	AI-Analog I/O	HD-HDMI
PN-ProfiNet	WF-Wifi/BT	TP-Precision Time Protocol	R4-Multi-drop RS-422/485	4G-4G/LTE
EI-Ethernet/IP	3G-3G/GPS	DC-Daisy-Chain	R2-Single-ended RS-232	DG-Dongle
EC-EtherCAT	ZB-ZigBee	MR-MRAM	ID-Intelligent Displays	GL-Gigabit LAN
AB-APAXBus				

Advantech Innovative Design Concept- Simple, Flexible, Reliable

As a leading provider of Industrial PC, Advantech devoted to innovation product/service development. To be the pioneer in intelligent automation technology, the i-concept represents the intelligent, integrated and intuitive design which covers the innovation of service model, user behavior and cutting-edge technology that opens a new era of industrial automation.



An integrated intelligent key brings simplified intuitive operation for configuring your automation panel. With a flexible software design, customized functions are easier to carry out.



A standardized modular Interface which offers flexible expansion to increase the number of applications and expand system functions through the variety of standardized modular I/Os.



A Reliable Long Distance Transmission Technology which transfers video signals and touch control over a single Ethernet cable which overcomes interference in harsh environments not only for data connections, but also for a cost effective multiple display solution.

Regional Service & Customization Centers

China Kunshan 86-512-5777-5666	Taiwan Taipei 886-2-2792-7818	Netherlands Eindhoven 31-40-267-7000	Poland Warsaw 48-22-33-23-740 / 41	USA/ Canada Milpitas, CA 1-408-519-3898
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Worldwide Offices

Greater China

China	Toll Free	800-810-0345
	Beijing	86-10-6298-4346
	Shanghai	86-21-3632-1616
	Shenzhen	86-755-8212-4222
	Chengdu	86-28-8545-0198
	Hong Kong	852-2720-5118

Taiwan

Toll Free	0800-777-111
Neihu	886-2-2792-7818
Xindian	886-2-2218-4567
Taichung	886-4-2378-6250
Kaohsiung	886-7-229-3600

Asia Pacific

Japan	Toll Free	0800-500-1055
	Tokyo	81-3-6802-1021
	Osaka	81-6-6267-1887
Korea	Toll Free	080-363-9494
	Seoul	82-2-3663-9494
Singapore	Singapore	65-6442-1000
Malaysia	Toll Free	1800-88-1809
	Kuala Lumpur	60-3-7725-4188
	Penang	60-4-537-9188

Indonesia

Jakarta	62-21-769-0525
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Thailand

Bangkok	66-2-248-3140
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India

Toll Free	1-800-425-5070
Pune	91-20-39482075
Bangalore	91-80-2545-0206

Australia

Toll Free	1300-308-531
Melbourne	61-3-9797-0100
Sydney	61-2-9476-9300

Europe

Toll Free	00800-2426-8080	
Germany	Munich	49-89-12599-0
	Hilden / D' dorf	49-2103-97-885-0
France	Paris	33-1-4119-4666

Italy

Milano	39-02-9544-961
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Benelux & Nordics

Breda	31-76-5233-100
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UK

Reading	44-0118-929-4540
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Poland

Warsaw	48-22-33-23-740 / 41
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Russia

Toll Free	8-800-550-01-50
Moscow	7-495-232-1692

More Information



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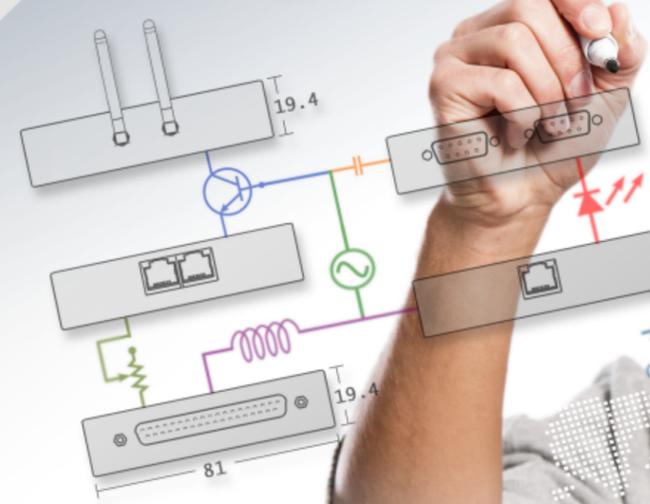
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Advantech iDoor Technology

Standardized Interface Which Offers Flexible Expansion to System Functions Via a Variety of Modular I/Os



- Introduction
- Features & Functions
- Benefits & Advantages
- Selection Guide
- Naming Convention



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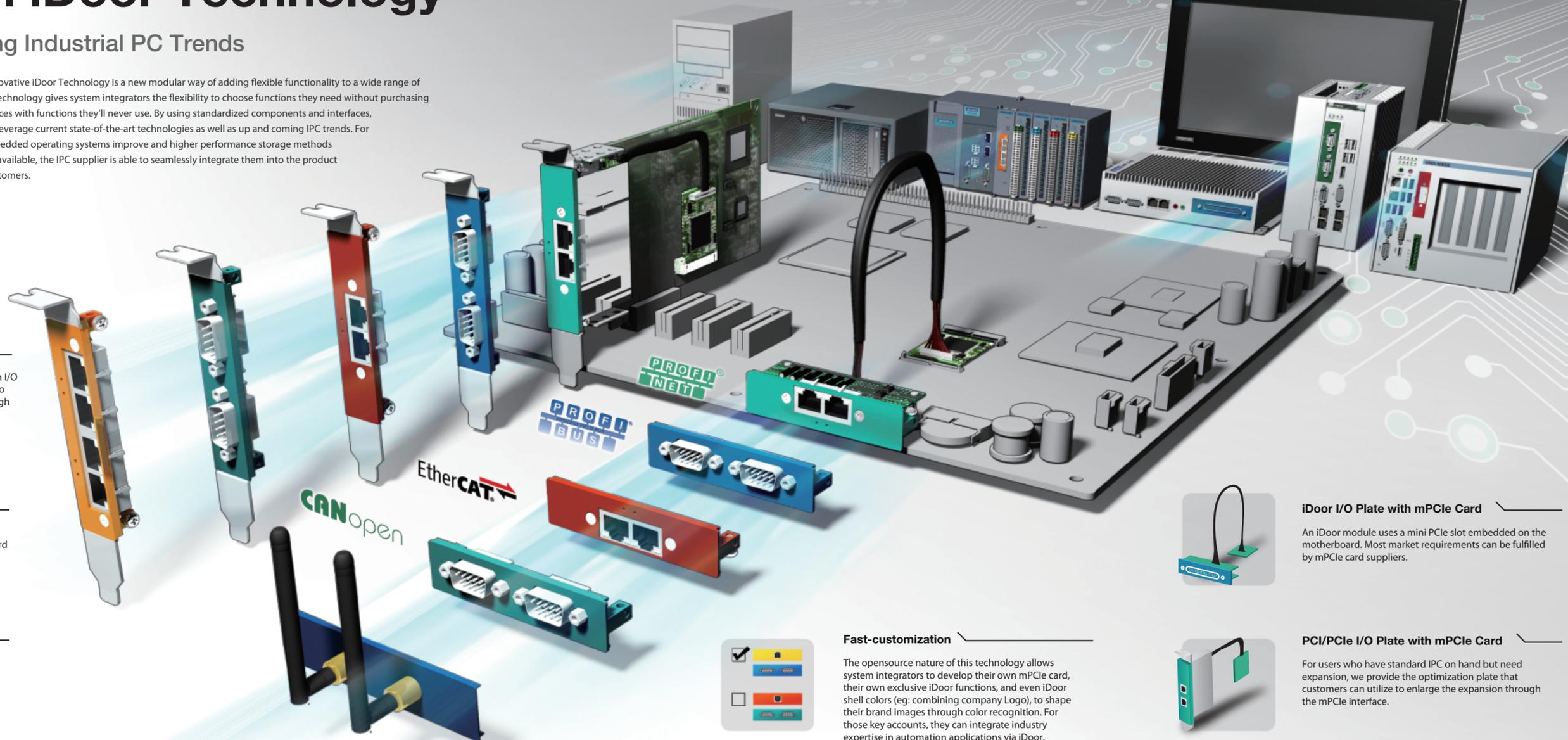
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Advantech iDoor Technology

Leading Industrial PC Trends

Advantech's innovative iDoor Technology is a new modular way of adding flexible functionality to a wide range of devices. iDoor Technology gives system integrators the flexibility to choose functions they need without purchasing costly extra devices with functions they'll never use. By using standardized components and interfaces, integrators can leverage current state-of-the-art technologies as well as up and coming IPC trends. For instance, as embedded operating systems improve and higher performance storage methods become widely available, the IPC supplier is able to seamlessly integrate them into the product line for their customers.



Simple, Flexible, Reliable

The optimized mechanism design simplify iDoor with I/O plate, I/O module and mPCIe card. It makes it easier to assemble and install. Modular design makes iDoor high flexibility for any configuration. With Advantech's rugged and strict design and comprehensive testing, iDoor provides a reliable offering.



Easy Maintenance

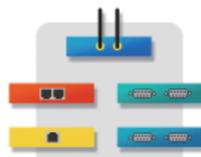
With Advantech's iDoor mechanical design, the user finds it easy to install iDoor into many kinds platform and fixes into the chassis. iDoor also provides a standard cable for internal cable routing and management. With the captive screw and locked USB which is easy for users to maintain.



Standard Interface

The standard dimensions of the 81 x 19.4 mm I/O plate with mPCIe interface supports the following models:

- Embedded DIN-Rail Controller: UNO-1000 series
- Embedded Automation PC: UNO-2000 series
- Embedded BOX IPC: UNO-3000 series
- Embedded Automation Panel: TPC series



Versatile Color Identification

For easy identification, iDoor has opted to use a color convention that represents the primary colors of their logos. For Example, the red is the most obvious color for EtherCAT logo, so the I/O plate color is defined as PANTONE 1795C and the black is the representative color of the POWERLINK logo, consequently, we used a black a plate.



Integration of Multiple Functions

With the versatile functionality of iDoor, the system is suitable for different vertical applications. iDoor application modules include memory/storage/external I/O, Fieldbus protocol (Ethernet/IP, Profibus, Profinet, EtherCAT, Powerlink, and so on), communications WAN / MAN / LAN and digital / analog I/O.



Fast-customization

The opensource nature of this technology allows system integrators to develop their own mPCIe card, their own exclusive iDoor functions, and even iDoor shell colors (eg: combining company Logo), to shape their brand images through color recognition. For those key accounts, they can integrate industry expertise in automation applications via iDoor.



Supports Different Platforms

iDoor Technology is not only designed to work exclusively with Advantech's products but also gives system integrators the ability to use iDoor modules on any industrial PC that has a spare PCIe slot. With the extended plate and adapter solution, it will suitable for the IPC platform. The flexible design will make iDoor fulfill any other 3rd party uses.



iDoor I/O Plate with mPCIe Card

An iDoor module uses a mini PCIe slot embedded on the motherboard. Most market requirements can be fulfilled by mPCIe card suppliers.



PCI/PCIe I/O Plate with mPCIe Card

For users who have standard IPC on hand but need expansion, we provide the optimization plate that customers can utilize to enlarge the expansion through the mPCIe interface.



PCI/PCIe I/O Plate with mPCIe Card in PCIe Adapter Card

Some customers need more expansion but are limited by the number of available mPCIe slots. We provide a PCIe adapter which gives an additional mPCIe slot which connects through an existing PCIe slot to maximize the expansion.