Advantech iDoor Technology

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











- Features & Functions
- **Benefits & Advantages**



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	OXPCle952 UART, Isolated RS-232, DB9 x 2	OXPCIe954 UART, Non-Isolated RS-422/485, DB37 x 1	OXPCle954 UART, Non-Isolated RS-232, DB37 x 1	Intel i350, GbE, PoE IEEE 802.3af, PD, RJ45 x 2	Intel i350 PCle, 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) • Singel 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 mPCle 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 LANIEEE 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/HSPAGPS/GPRS bands SIM holders with switch for redundancy

■ Fieldbus Protocol





Digital/ Analog I/0
Allalog I/



Model Name	PCM-26D2CA	PCM-26D1PB	Mode
Description	SJA1000 CANBus, CANOpen, DB9 x 2	Hilscher netX100 FieldBus, ProfiBus, DB9 x 1	Descr
Spec	• CAN 2.0 A/B • 1Mbps, 16MHz	• Hilscher netX100 • 9.6kbps~12Mbps	Spec

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 - 26 D 2 C A

23-Memory / Storage / External I/O 24-Communication 25-Display 26-Fieldbus Connector

R-RJ45 C-CFast
D-DB9 S-SMA/DFP/SD
U-USB H-HDMI/DP

0-No Connector
1-One Connector
2-Two Connectors

Function

PB-ProfiBus
PN-ProfiNet
El-Eithernet/IP
EC-EtherCAT
AB-APAXBus

27-Digital/Analog I/O

CA-CANOpen PL-PowerLink WF-WiFi/BT 3G-3G/GPS ZB-ZigBee

OF-Optical Fiber
PE-PoE
TP-Precision Time

PE-PoE
TP-Precision Time Protocol
DC-Daisy-Chain
MR-MRAM

DI-Digital I/O AI-Analog I/O

R4-Multi-drop RS-422/485 R2-Single-ended RS-232 ID-Intelligent Displays U3-USB 3.0 HD-HDMI 4G-4G/LTE DG-Dongle

DG-Dongle GL-Gigabit LAN



Advantech

Leading

Advantech's innovativ devices. iDoor Techno costly extra devices w integrators can levera instance, as embedde become widely availal line for their customer



Simple, Flexible, Reliable

The optimized mechanism design simplify iDoor with I/O plate, I/O module and mPCle 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.



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 mPCle 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 c that represents the primary colors of their logos. red is the most obvious color for EtherCAT logo, s color is defined as PANTONE 1795C and the black representative color of the POWERLINK logo, con used a black a plate.

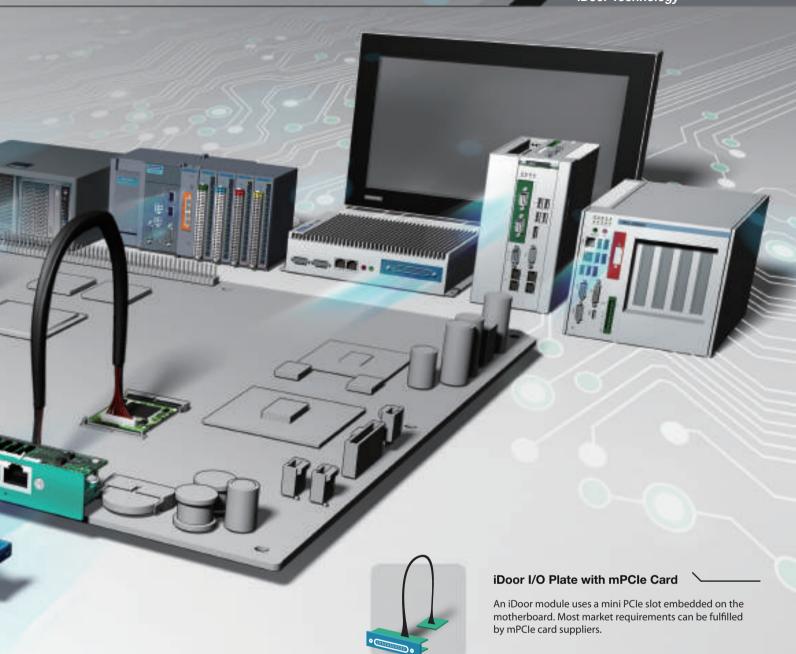
iDoor Technology ndustrial PC Trends iDoor Technology is a new modular way of adding flexible functionality to a wide range of ogy gives system integrators the flexibility to choose functions they need without purchasing h functions they'll never use. By using standardized components and interfaces, e current state-of-the-art technologies as well as up and coming IPC trends. For operating systems improve and higher performance storage methods le, the IPC supplier is able to seamlessly integrate them into the product Ether CAT. **Integration of Multiple Functions**

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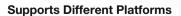
With the versatile functionality of iDoor, the system is suitable for different vertical applications. iDoor application modules include memory/storage/external I/O, Fieldbus protocol (Ethernet/IP, Profibus, Profinet, EtherCAT, Powerlink, and so on), communications WAN / MAN / LAN and digital / analog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





Fast-customization \

The opensource nature of this technology allows system integrators to develop their own mPCle 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.



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 PCle 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.



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 mPCle 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 mPCle slots. We provide a PCle adapter which gives an additional mPCle slot which connects through an existing PCle slot to maximize the expansion.

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.

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