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, PCIex1), RJ-45	2 ports Gigabit Ethernet, IEEE 802.3af (PoE)-compliant, B+M key (2242, PCIex1), RJ-45	2 ports Gigabit Ethernet, Intel® I350, B+M Key (2242, PCIex1), 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, PCIex1), DB37

iDoor Industrial Fieldbus Communication

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, Profitbus, 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

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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.

iKey

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.

iDoor

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.

iLink

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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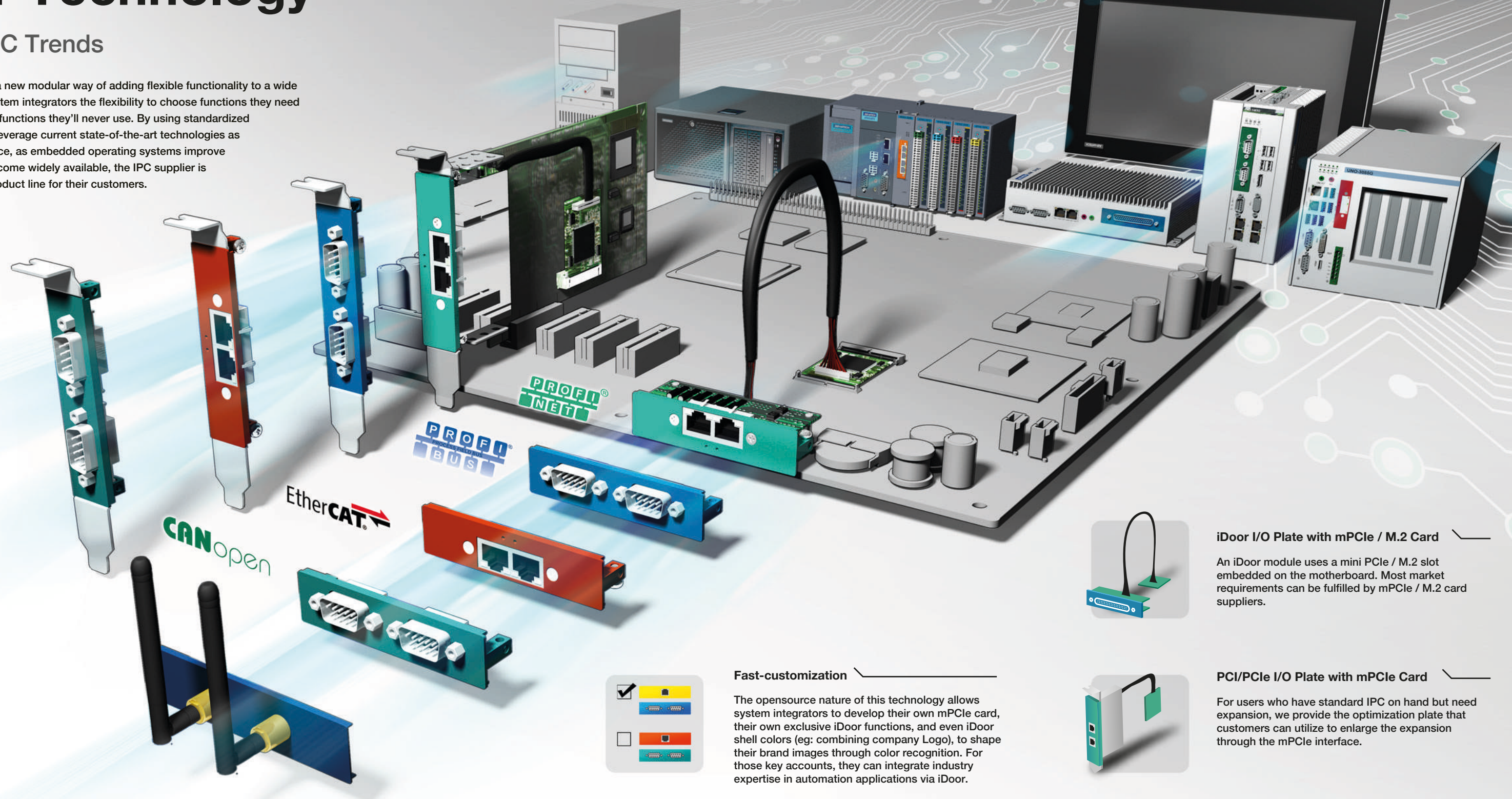
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Advantech iDoor Technology

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 / M.2 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.
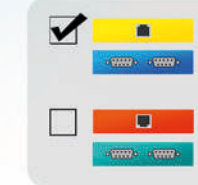
Standard Interface

The standard dimensions of the 81 x 19.4 mm I/O plate with mPCIe / M.2 interface supports the following models:
• Din-Rail Automation Controller: UNO-1 Series
• Compact Embedded Box IPC: UNO-2000 Series
• Expandable Embedded Box IPC: UNO-3 Series
• Embedded Automation Panel: TPC series, PPC-300S series

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, EtherCAT, Powerlink, and so on), communications WAN / MAN / LAN and digital / analog I/O.
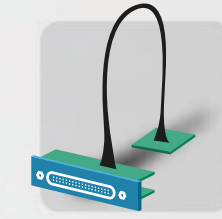
Fast-customization

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.
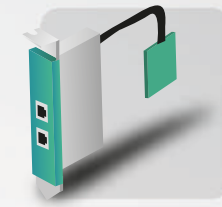
Supports Different Platforms

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.
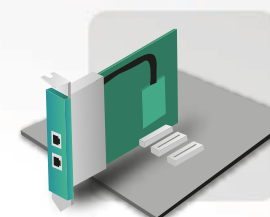
iDoor I/O Plate with mPCIe / M.2 Card

An iDoor module uses a mini PCIe / M.2 slot embedded on the motherboard. Most market requirements can be fulfilled by mPCIe / M.2 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.