

## Selection Guide

### Memory/Storage/ External I/O



Model Name	PCM-2300MR	PCM-2300TP	PCM-23C1CF	PCM-23U1DG
Description	MR4A16B, MRAM, 2MByte	TPM Compliant with TCG 1.2	CFast, Ejection Type I, CFast x 1	Locked USB Slot for USB Dongle, USB x 1
Spec	<ul style="list-style-type: none"> <li>2MB MRAM Storage</li> <li>Speed 6 MB/Sec</li> </ul>	<ul style="list-style-type: none"> <li>TPM compliant with TCG 1.2</li> </ul>	<ul style="list-style-type: none"> <li>1 port CFast I/O card</li> <li>CFast 3.0, Type I/II</li> </ul>	<ul style="list-style-type: none"> <li>1 port USB I/O card</li> <li>USB A type w/lock</li> </ul>

### Communication



Model Name	PCM-24D2R4	PCM-24D2R2	PCM-24D4R4	PCM-24D4R2	PCM-24R2PE	PCM-24R2GL
Description	OXPCIe-952 UART, Isolated 422/485, DB9 x 2	OXPCIe-952 UART, Isolated RS-232, DB9 x 2	OXPCIe-954 UART, Non-Isolated 422/485, DB37 x 1	OXPCIe-954 UART, Non-Isolated RS-232, DB37 x 1	Intel i350, GbE, PoE IEEE 802.3af, PD, RJ45 x 2	Intel i350 PCIe, GbE, LAN Mini Card, RJ45 x 2
Spec	<ul style="list-style-type: none"> <li>Iso.2-ports, 2KVDC</li> <li>RS-232/422/485</li> </ul>	<ul style="list-style-type: none"> <li>Non-Iso. 4-ports</li> <li>50 bps ~ 921.6 kbps(RS-422/485)</li> </ul>	<ul style="list-style-type: none"> <li>Intel i350</li> <li>2 port 802.3af</li> </ul>	<ul style="list-style-type: none"> <li>Intel i350</li> <li>2 port 10/100/1000 LAN</li> </ul>	<ul style="list-style-type: none"> <li>Intel i350</li> <li>2 port 10/100/1000 LAN</li> </ul>	<ul style="list-style-type: none"> <li>Intel i350</li> <li>2 port 10/100/1000 LAN</li> </ul>



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 Mini Card, USB x 2	802.11 a/b/g/n 2T2R w/ BT4.0, Atheros AR9462, SMA x 2	6-band HSPA Cellular Module, SIM Holder+GPS, SMA x 2	LTE Bands, UMTS/HSPA Bands, GPS/GPRS Bands, SMA x 2
Spec	<ul style="list-style-type: none"> <li>Intel 82574L chip</li> <li>9k Jumbo frames, 802.1AS</li> </ul>	<ul style="list-style-type: none"> <li>2 port USB 3.0</li> <li>USB A type</li> </ul>	<ul style="list-style-type: none"> <li>Atheros AR9462</li> <li>802.11 a/b/g/n 2T2R w/ BT4.0</li> </ul>	<ul style="list-style-type: none"> <li>3.75G HSPA+GPS</li> <li>2-in-1, Full-size mPCIe Card w/SIM Card</li> </ul>	<ul style="list-style-type: none"> <li>LTE bands</li> <li>UMTS/HSPA GPS/GPRS bands</li> </ul>

### Fieldbus Protocol



Model Name	PCM-26D2CA	PCM-26D1PB
Description	SJA1000 CANBus, CANOpen, DB9 x 2	Hilscher netX100 FieldBus, ProfiBus, DB9 x 1
Spec	<ul style="list-style-type: none"> <li>CAN 2.0 A/B</li> <li>1Mbps, 16MHz</li> </ul>	<ul style="list-style-type: none"> <li>Hilscher netX100</li> <li>9.6kbps-12Mbps</li> </ul>

### Digital/ Analog I/O



Model Name	PCM-27D24DI
Description	Digital I/O, 16 DI / 8 DO, Isolation, DB37 x 1
Spec	<ul style="list-style-type: none"> <li>Iso. 16DI, 8DO</li> <li>Iso. Protection 2.5KVDC</li> </ul>

## Naming Convention

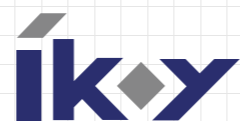
### PCM-26D2CA

Category	Connector	Port
23-Memory / Storage / External I/O	R-RJ45	0-No Connector
24-Communication	D-DB9	1-one connector
25-Display	U-USB	2-two connectors

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

## 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	Taiwan	Netherlands	Poland	USA/ Canada
Kunshan 86-512-5777-5666	Taipei 886-2-2792-7818	Eindhoven 31-40-267-7000	Warsaw 48-22-33-23-740/ 741	Milpitas, CA 1-408-519-3898

## 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
Thailand	Bangkok	66-2-248-3140
India	Toll Free	1800-425-5070
	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	Münich	49-89-12599-0
	Hilden / D'dorf	49-2103-97-885-0
France	Paris	33-1-4119-4666
Italy	Milano	39-02-9544-961
Benelux & Nordics	Breda	31-76-5233-100
UK	Reading	44-0118-929-4540
Poland	Warsaw	48-22-33-23-740/41
Russia	Toll Free	8-800-550-01-50
	Moscow	7-495-232-1692

### Americas

North America	Toll Free	1-888-576-9668
	Cincinnati	1-513-742-8895
	Milpitas	1-408-519-3898
	Irvine	1-949-420-2500
Brazil	Toll Free	0800-770-5355
	Saude-São Paulo	55-11-5592-5355
Mexico	Toll Free	1-800-467-2415
	Mexico City	52-55-6275-2777

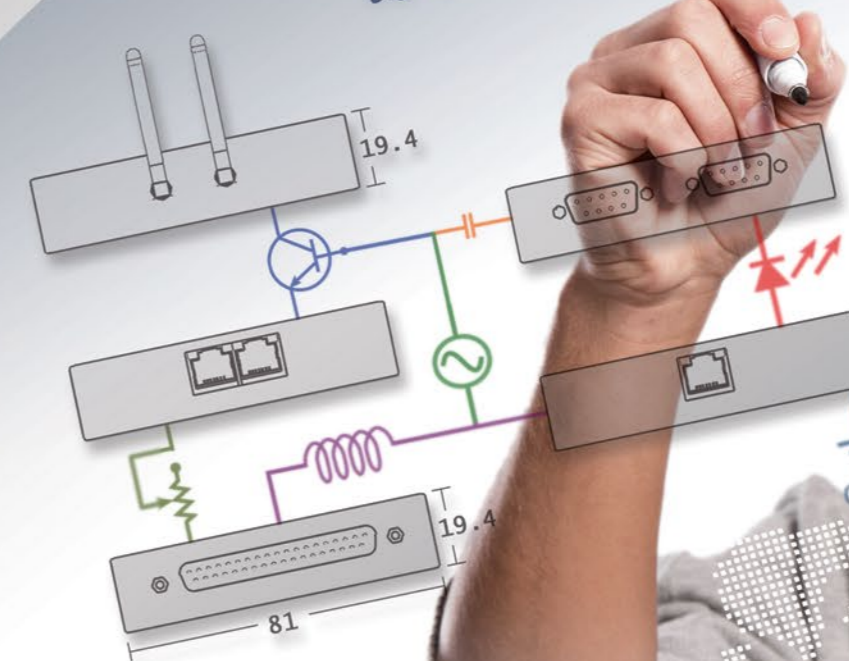


# Advantech iDoor Technology

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



**ADVANTECH**

Enabling an Intelligent Planet

www.advantech.com

Please verify specifications before quoting. This guide is intended for reference purposes only. All product specifications are subject to change without notice. No part of this publication may be reproduced in any form or by any means, electronic, photocopying, recording or otherwise, without prior written permission of the publisher. All brands and product names are trademarks or registered trademarks of their respective companies. © Advantech Co., Ltd. 2012

**ADVANTECH**

Enabling an Intelligent Planet

8600000147

www.isotron.eu

# 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 simplifies iDoor with I/O plate, I/O module, and mPCIe card. It makes it easier to assemble and install. Modular design makes iDoor highly flexible for any configuration. With Advantech's rugged and strict design and comprehensive testing, iDoor provides a reliable offering.



### Easy Maintenance

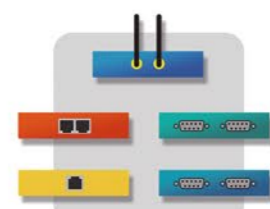
With Advantech's iDoor mechanical design, the user finds it easy to install iDoor into many kinds of platforms and fix it into the chassis. iDoor also provides a standard cable for internal cable routing and management. With the captive screw and locked USB which is easy for users to maintain.



### Standard Interface

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

- Embedded Automation Computers UNO-2200/2300/2400 series
- Embedded DIN-Rail Controller UNO-1200/1300/1400 series
- Embedded BOX IPC UNO-3000 series
- Embedded Automation Panel Computers TPC-xx82/xx72/xx80 series



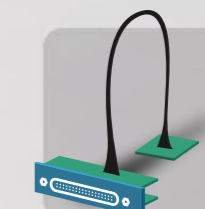
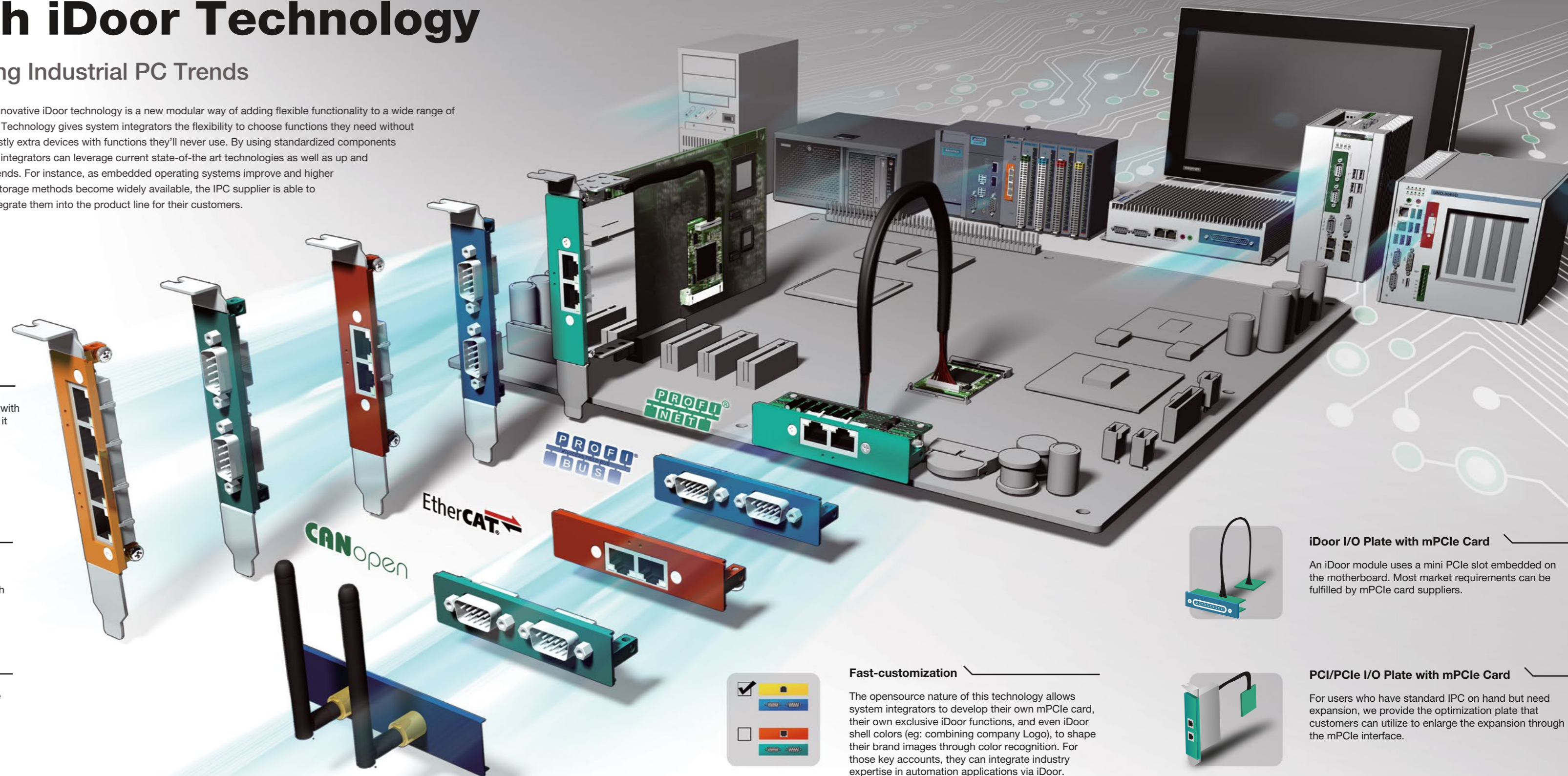
### Versatile Color Identification

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 plate.



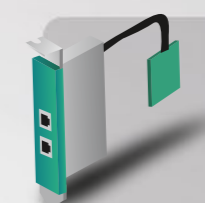
### Integration of Multiple Functions

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.



### 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.



### Fast-customization

The open-source 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 be suitable for the IPC platform. The flexible design will make iDoor fulfill any other 3rd party uses.