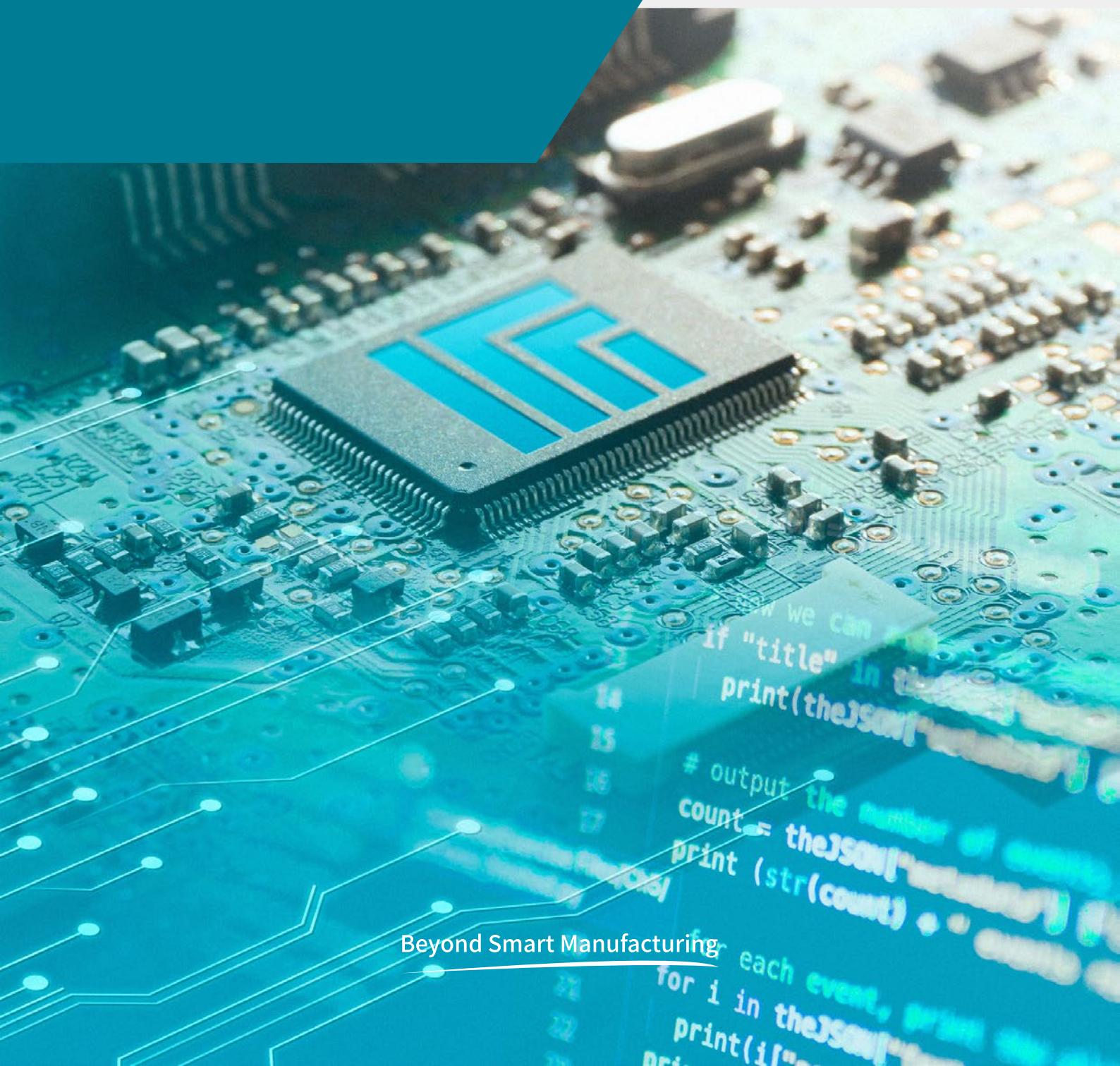


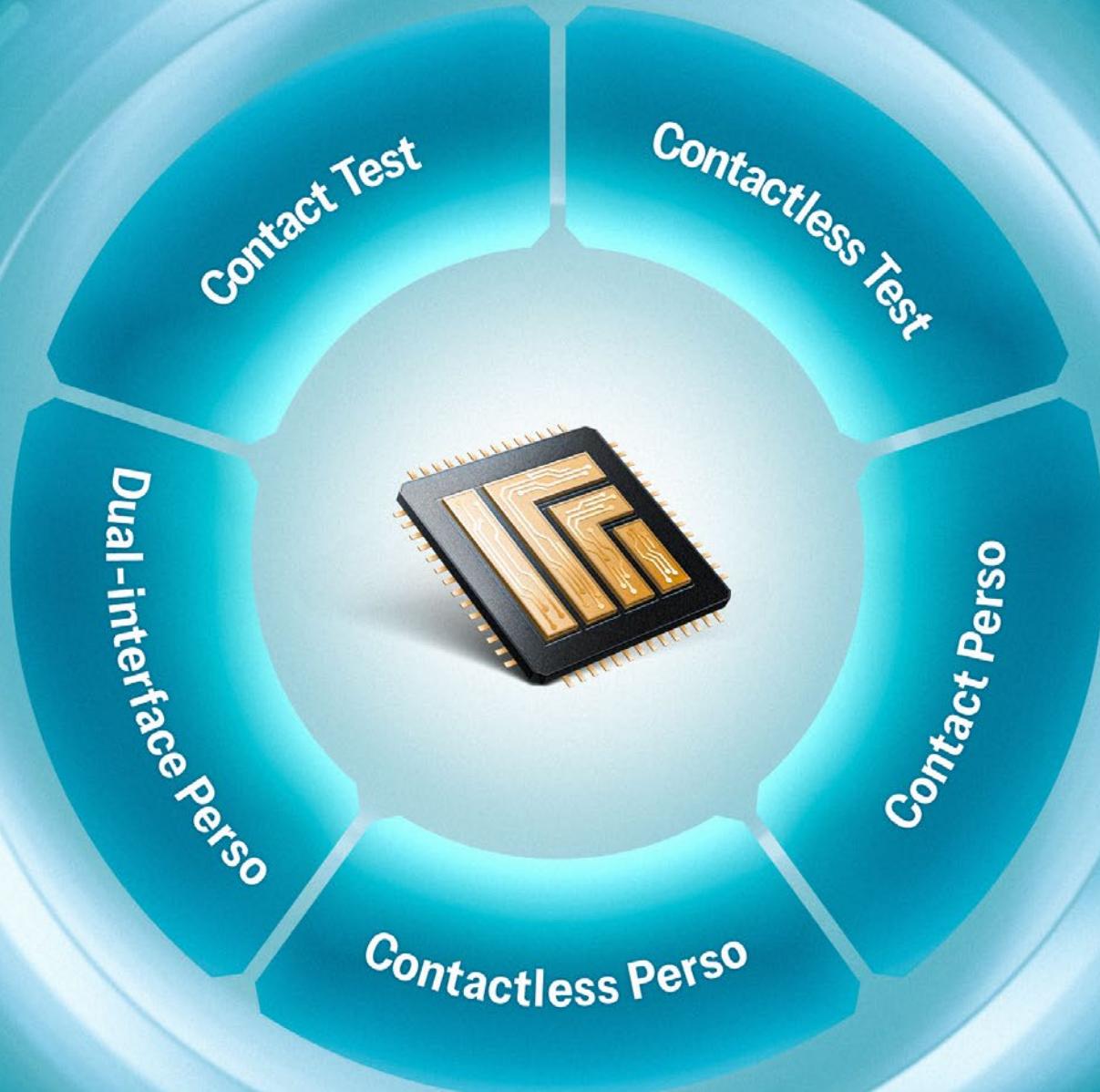
READER AND TESTER SERIES PRODUCTS

MODEL

PT300 Series

Beyond Smart Manufacturing

Comprehensive Product Line of Reader and Tester



PT300 Series Reader and Tester

Product Advantages



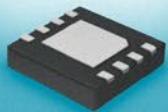
Complete Product Portfolio With
Full Functionality Coverage

ARM + FPGA

Dual-core Cortex®-A9 + FPGA

CPU Main Frequency 766MHz

1GB RAM, 4GB Hard disk



SE Chip/IoT Chip



Chip Module of Contactless Smart Card



Smart Card



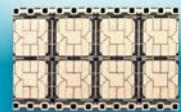
HF RFID Tag



SD Card



Inlay



Chip Module of Contact Smart Card



eDocument

The reader and tester series products independently developed by Piotec meet the personalization and test requirements of SE chip/IoT chip, smart card chip module, smart card, HF RFID tag, SD card, Inlay, eDocument, etc. It can be used in smart card manufacturing, smart card terminal issuance, module manufacturing, chip manufacturing, RFID production and other fields.

The PT200 series reader, having undergone over a decade of market validation, have earned a solid reputation and trust from customer. Building upon this legacy, Piotec has newly developed the PT300 series utilizing FPGA architecture. This upgraded series delivers comprehensive enhancements in both

functionality and performance, supporting multiple secondary development frameworks for Windows and Linux platforms. It ensures secure personalized processes and has obtained CE certification.

Personalization Solutions

The industrial-grade reader series newly developed by Piotec, based on FPGA, is specially designed for personalization on both contact and contactless chips. These devices are applicable in various fields including smart card manufacturing, smart card terminal issuance, module manufacturing, chip manufacturing, as well as RFID manufacturing.



PT300-MC1

Contact Reader

- Featuring a dual-slot with one-to-eight configuration and multi slot expandability
- Supported protocols: ISO7816 (T=0, T=1), SPI, UART, and I²C
- Support voltage levels of CLASS A, B, C, D specified in ISO7816 protocol
- Open/Short test on all ISO7816 contacts pin

PT300-MCL1

Contactless Reader

- Featuring a dual-slot with one-to-eight configuration and multi slot expandability
- Supported protocols: ISO14443A/B, Mifare, Mifare+, Felica, and ISO15693
- Adjustable RF power improved adaptability significantly
- Adopt SMB RF port, flexibly match with different antennas

PT300-MD1

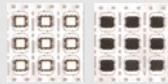
Dual-interface Reader

- Dual-slot one-to-sixteen (eight contact + eight contactless)
- Support both contact and contactless. It is the combination of PT300-MC1 and PT300-MCL1.

SUITABLE FOR



Contact Smart Card Chip Module



Contactless Smart Card Chip Module



Inlay



SD Card



HF RFID Tag



Smart Card



eDocument

Multi-protocol Personalization Solutions

The industrial-grade reader newly developed by Piotec, based on FPGA, is specially designed for personalization on smart card chips, SE chip/IoT chips, ESIM chips and other contact chips. It can be used in smart card manufacturing, module manufacturing, chip manufacturing and other fields. It can provide customized solutions for different chip packaging, chip pin definition and peripheral circuit requirements.



PT300-MCX1
Multi-Protocol Contact Reader

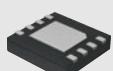
- Featuring a dual-slot with one-to six configuration and multi-slot expandability
- Supported protocols: ISO7816 (T=0, T=1), SPI, UART, I²C, SWP, and support online protocol switching
- Support voltage levels of CLASS A, B, C, D specified in ISO7816 protocol
- Support testing pin open-short test
- Writing frequency and output voltage adjustable



PT300-MCXP1
Multi-Protocol Contact Reader

- Featuring a dual-slot with one-to four configuration and multi-slot expandability
- Supported protocols: ISO7816 (T=0, T=1), SPI, UART, I²C, SWP
- Support voltage levels of CLASS A, B, C, D specified in ISO7816 protocol
- Support multi-protocol parallel writing
- Adaptable for complex SE chips

SUITABLE FOR



SE Chip/IoT Chip



Contact Smart Card Chip Module



SD Card



Smart Card

Test Solutions

The industrial-grade tester newly developed by Piotec, based on FPGA, delivers faster testing speed, higher accuracy, and enhanced functionality. It supports both contact and contactless chips, module chips, smart cards, inlays, etc, with applications manufacturing processes and R&D laboratories.

PT300-MCMT1

Contact Tester

- Featuring a dual-slot with one-to-four configuration and multi-slot expandability
- FVMI, FIMV
- Open-Short test, leakage current test, static/dynamic current test, VIH/VIL test
- Supported protocols: ISO7816 (T=0, T=1), SPI, UART, I²C
- Support voltage levels of CLASS A, B, C, D specified in ISO7816 protocol
- Adjustable communication protocol parameters

PT300-MCLT1

Contactless Tester

- Featuring a dual-slot with one-to-four configuration and multi-slot expandability
- Chip/module capacitance test
- Q factory, resonant frequency, load modulation wireless test of the card
- Supported protocols: ISO14443A/B, Mifare, Mifare+, Felica, ISO15693
- Adjustable communication protocol parameters

SUITABLE FOR

SE Chip/IoT Chip

Contact Smart Card Chip Module

SD Card

Smart Card

Contactless Smart Card Chip Module

Inlay

HF RFID Tag

eDocument

Rack Enclosure

PT300-RACK series rack, available in sizes of 2U/4U/5U, meets the installation and use of PT300 full series reader and can install different number of reader according to requirements. It is applicable to desktop application or industrial production environment.

The software supports 128 heads working simultaneously, providing solutions for pre-personalization and test.

MODEL

PT300RACK-5U12S



- 6/12 slots
- Built-in 450W power supply
- Integrated switch function
- 330×222×375mm
- 7.5kg

MODEL

PT300RACK-4U8S



- 4/8 slots
- Built-in 200W power supply
- Integrated switch function
- 310×178×376mm
- 4.0kg

MODEL

PT300RACK-2U2S



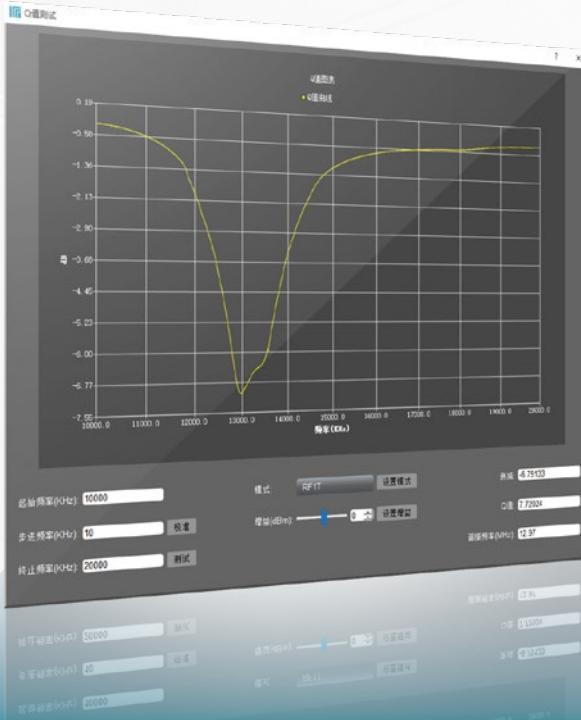
- 1/2 slots
- External 65W adapter power supply
- 240×88×316mm
- 2.2kg

PT300 Rack^{Series} Rack Capacity

	Rack	2U2S	4U8S	5U12S
Assemblies				
Reader	PT300-MC1-8RJ	1(8 heads I)	4(32 heads I)	6(48 heads I)
	PT300-MCL1-8MB	1(8 heads P)	4(32 heads P)	6(48 heads P)
	PT300-MD1-8RJ8MB	1(8 heads I+P)	4(32 heads I+P)	6(48 heads I+P)
	PT300-MCX1-6DR	1(6 heads I)	4(24 heads I)	6(36 heads I)
	PT300-MCXP1-4DR	1(4 heads I)	4(16 heads I)	6(24 heads I)
Tester	PT300-MCMT1-4DR	1(4 heads I)	4(16 heads I)	6(24 heads I)
	PT300-MCLT1-4MB	1(4 heads P)	4(16 heads P)	6(24 heads P)

N: number of assembly (I: number of contact head, P: number of contactless head)

Test Software

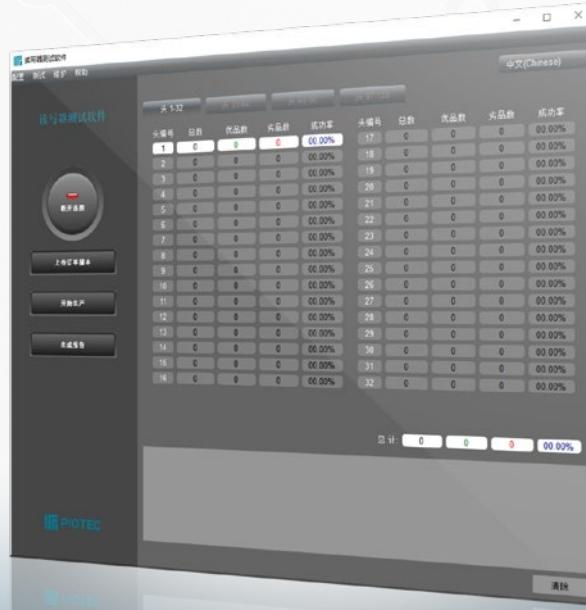


No.1

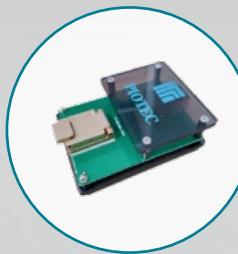
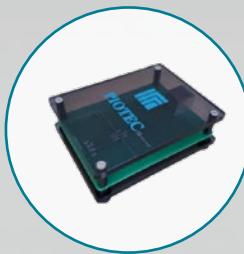
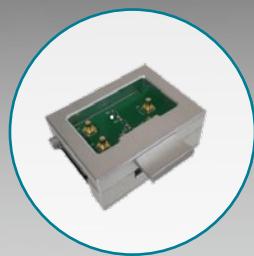
The reader and tester can be provided with a supporting software, which can control the reader and tester to achieve various test functions.

No.2

Support for up to 128 heads working simultaneously, allows for pre-personalization and test production in cooperation with the machine's control system.



Laboratory Solutions



More...

We can provide
customized solution.

Laboratory Solutions

As reader and tester evaluation kit, it is designed on the same platform as the reader and tester in board form, and can be used on the desktop. Combined with the newly designed software, it is used for the pre-evaluation test and laboratory verification test of the reader and tester.



TT-D30

- Contact and contactless personalization
- Desk evaluation
- Support all functions of PT300-MD1 dual interface Reader



TT-CX30

- Multi-protocol contact personalization
- Desk evaluation
- Support all functions of PT300-MCX1 multi-protocol contact Reader



TT-CXP30

- Multi-protocol contact personalization
- Desk evaluation
- Support all functions of PT300-MCXP1 multi-protocol contact Reader



TT-DT30

- Contact and contactless test
- Desk evaluation
- Support all functions of PT300-MCMT1 contact tester and PT300-MCLT1 contactless tester



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