Probes Test System >>

Flying Probe Test is a circuit board test method used to detect process defects and board functionality in the production of circuit boards. In flying probe testing, the test probe moves over the PCBA surface at high speed and is subjected to contact testing at each test point. This test method does not require the use of traditional test fixtures and is therefore relatively inexpensive. Since the flying probe does not depend on the test point, it can improve the test coverage by touching the pads of the component, which is very different from traditional ICT.

The flying probe test can effectively detect short, open, electrical characteristics and connectivity of various components on the PCBA, and can perform simple functional tests on the circuit board. It is widely used in electronics manufacturing, especially in prototyping and low-volume production.

Overall, flying probe testing is a common test method in PCBA testing that can effectively perform connectivity and functionality tests to ensure the quality and performance of circuit boards.

FPT-X4E
Single side 4 Flying probes Test System
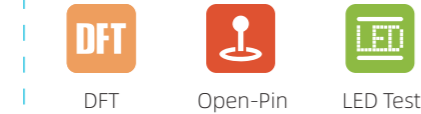
X4E X6E X8E

Key Features

- Four probes on single side with best price
- High accuracy(01005 package supported)
- Online/Inline transmission supported

- Precision linear rail system with high repositioning accuracy
- Horizonal transmission
- Static LCRD test supported

Standard configuration

In Circuit Test | Optical Check | Flatness Check | Barcode | IFREE Convert Tool

Option

DFT | Open-Pin | LED Test

Technical Data

Application	NPI
Probe Side	Top
Probe Qty	4
Max Test Area (L * W)	520*460mm
Footprint (L * W * H)	1610*1250*1700mm

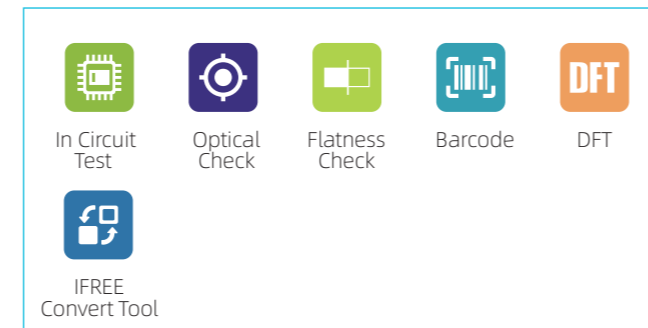* Information above is only for reference. Please contact the salesman to learn more.

FPT-X6E
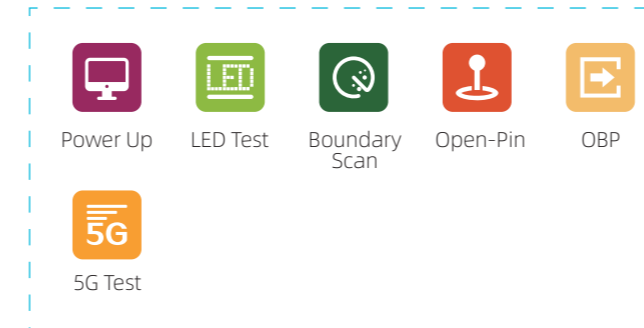### Dual side 6 Flying Probes Test System

X4E X6E X8E

Key Features

- Six probes on dual sides (4 on TOP +2 on BOT) with best cost performance
- High accuracy (01005 package supported)
- High accuracy ergodicity test supported
- Offline/Inline transmission supported

- Precision linear rail system with high repositioning accuracy
- Horizonal transmission
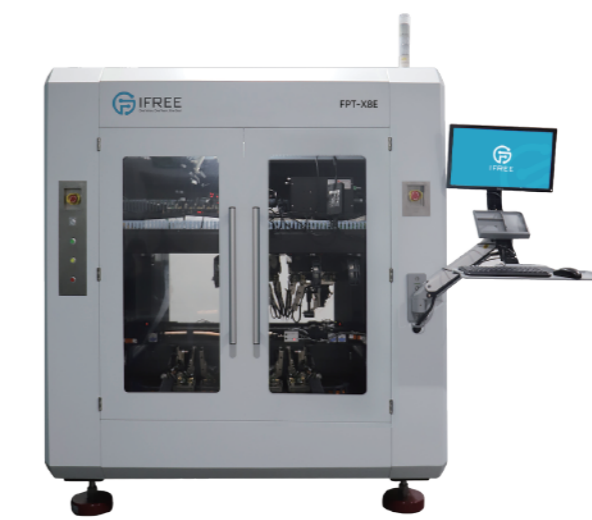- Static LCRD test supported

Standard configuration

In Circuit Test | Optical Check | Flatness Check | Barcode | DFT
IFREE Convert Tool

Option

Power Up | LED Test | Boundary Scan | Open-Pin | OBP
5G Test

Technical Data

Application	NPI / Production Test / Repair
Probe Side	Dual Sides
Probe Qty	6 (4 TOP + 2 BOT)
Max Test Area (L * W)	640 * 600 mm
Footprint (L * W * H)	1900*1550*1950mm

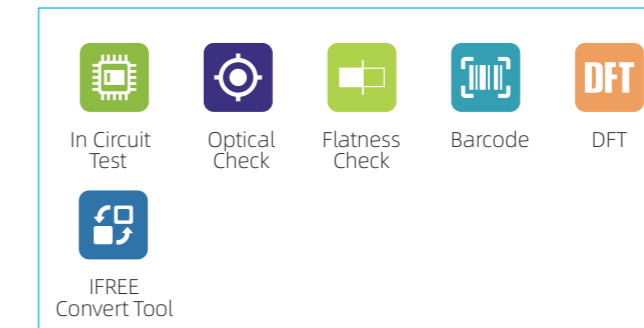* Information above is only for reference. Please contact the salesman to learn more.

FPT-X8E
Dual side 8 Flying Probes Test System
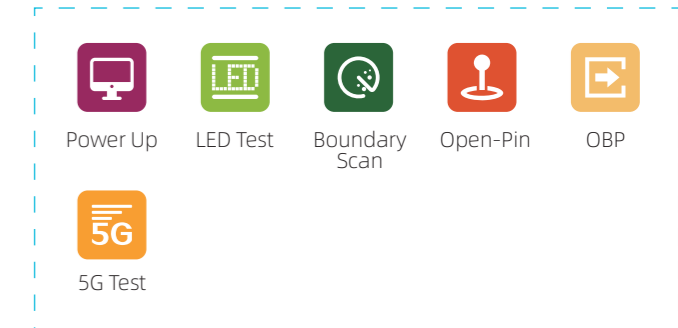
X4E X6E X8E

Key Features

- Eight probes on dual sides (4 on TOP +4 on BOT) with best test efficiency
- High accuracy (01005 package supported)
- High accuracy ergodicity test supported
- Offline/Inline transmission supported

- Precision linear rail system with high re-positioning accuracy
- Horizonal transmission
- Static LCRD test supported

Standard configuration

In Circuit Test | Optical Check | Flatness Check | Barcode | DFT
IFREE Convert Tool

Option

Power Up | LED Test | Boundary Scan | Open-Pin | OBP
5G Test

Technical Data

Application	NPI / Production Test / Repair
Probe Side	Dual Sides
Probe Qty	8 (4 TOP + 4 BOT)
Max Test Area (L * W)	640*600mm
Footprint (L * W * H)	1900*1550*1950mm

* Information above is only for reference. Please contact the salesman to learn more.
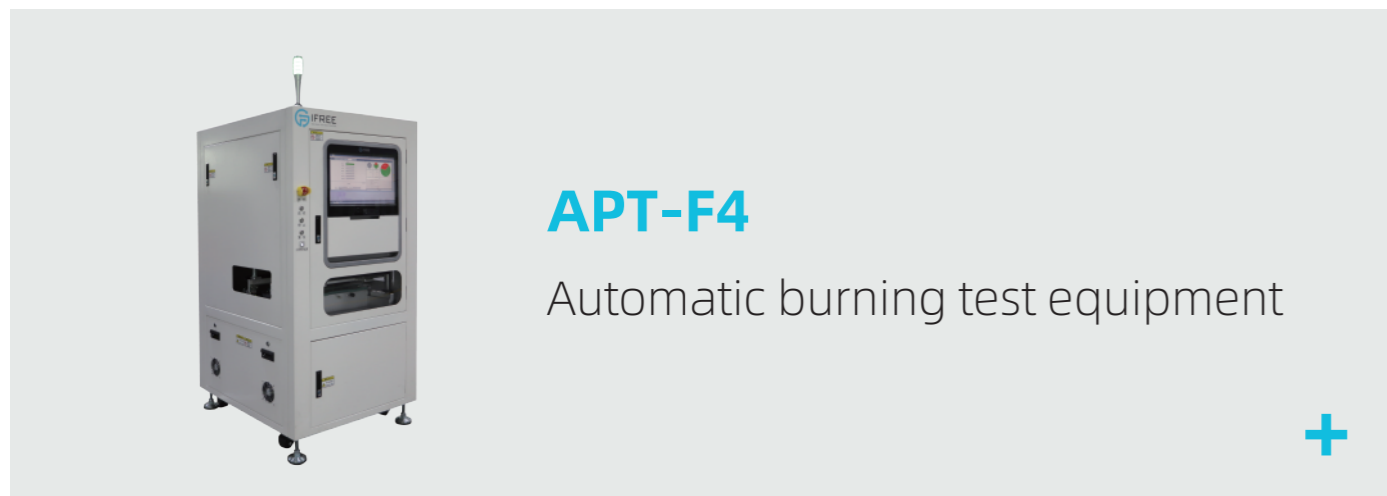
APT-F4
Automatic burning test equipment

+

Product Application

Positioning: Automatic programming of MCU, domain controller, flash memory, logic memory and other chips of PCBA of intermediate and advanced electronic products, and it could expand the test functions such as ICT / FCT / Boundary Scan etc.
Application: 3C, automotive, mobile phone, communication base station, laptop, server, medical, new energy etc.

Product advantages

Safe and Reliable
X-type downward pressure mechanism, the downforce on PCBA is evenly, support inline and offline mode.

High Speed
Clock can up to 50Mhz, it will solve the production bottlenecks.

Parallel Test
Support Parallel programming, mainstream chips are supported.

Cost Saving
License is free, and the average cost per unit is lower than other programmer.

Support multiple chips

• The universal programmer supports most mainstream chips.
• Supported programming protocols: SWD, DAP, UART, JTAG, I2C etc.
• Supported chip types: Microcontrollers, Serial Memories, CPLDs, FPGAs, Parallel Memories.
• One programmer can support 4 different chips to be programmed at the same time. More parallel programming can use cascaded method.

Inline / offline mode

According to user's production layout, it can support Inline/Offline mode.
• **In-Line**
It can be connected to front/rear conveyer or loader/un-loader machine which can make our production line automated.
The direction of board in/out can be set according to actual production line situation. (Left in Right out, Left in Left out, Right in Right out, Right in Left out)
• **Off-Line**
Board in/out can use conveyer tracks in manual mode.

Programming more stable

Compared with the single-wire or twisted pair programming solution of traditional programmer, NovaFlash connect to test fixture with Category 6 network cable, and POD Head of Nova Link installed clear to test point, which can better shield external interference, it can improve stability greatly when programming, and improve the best guarantee for large-capacity programming.

Expansion module

FCT

ICT

Bscan

Fixture
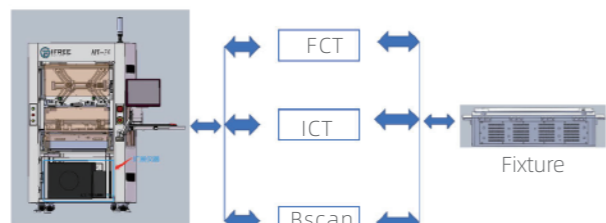
Can support expansion of ICT/FCT/BSCAN and other modules according to customer needs.

IFREE （Suzhou）Test Technology Co., Ltd

As a subsidiary of Shenzhen Iorange Automation Co., Ltd. IFREE (Suzhou) Test Technology Co., Ltd. is located in Suzhou Industrial Park. Relying on the IFREE high-precision flying probe test system, IFREE creates value, delivers value and shares value. IFREE hold the spirit of customer-oriented, technology, innovation and common growth, based on domestic and targeting the worldwide.
IFREE is the first domestic multi-functional flying probe test system with high precision and high speed, which can be widely used in 5G communication, server, laptop, automotive electronics, medical electronics, aerospace and other application scenarios, and provide value-add testing and maintenance services.

Unit 201A, International Science and Technology Park, 1355 Jinji Lake Avenue, Suzhou Industrial Park, Suzhou City

0512-68204069

info@ifreetest.com

IFREE

Product Brochure

One Vision, One Team
One Goal