

MP500 PT1-NFC



Manufacturing optimized high-end test tool for NFC devices

The MP500 PT1-NFC Tester Advantage

You want to test NFC devices in a manufacturing environment? (but also banking terminals and smart objects operating at 13.56MHz). The MP500 PT1-NFC enables device producers to perform functional test (simple communication) as well as physical measurement in record time. Because in a manufacturing environment, testing time and operator friendliness are worth gold, the MP500 PT1-NFC comes supplied with an innovative triple antenna, allowing to perform Reader/Writer mode and Card mode testing, as well as resonance frequency and S11 parameter measurement without any human operation.



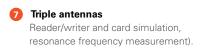
2 Trigger

3 Smart Card Communication
Output and impedance measurement

- General Accessoires Measurement, active antenna, load modulation
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- 6 Communication
 Ethernet synchronization,
 trigger, USB host









The Ideal Tool

Supported Tests

Electrical testing

- Resonance frequency measurement / Q factor
- S11 parameter measurement
- Card LMA measurement
- Card Bitrate
- Reader field strength
- Reader carrier frequency
- Reader waveform characteristics (t1,t2,...)
- Reader input sensitivity

Logical testing

- Numerous timing controlled pre-implemented test sequences
- Antitearing

Supported Protocols

- ISO/IEC 14443-3 (proximity cards) (Type A/B)
- B' (Innovatron™)
- ISO/IEC 15693 (vicinity cards)
- ISO 18000-3 Mode 1
- MifareTM
- FeliCaTM
- NFC Forum modes: Peer2Peer,Listening, Polling
- NFC Forum tags (Tag types 1,2,3,4)
- ISO 18092 (NFC-IP1)

Application Fields

- End of line test of NFC devices on Over the air or conducted mode
- Manufacturing test of contactless readers

Spy Feature

Signals displayed:

- Field presence, modulation
- sequences, bytes
- I/O direction
- baudrate change
- triggers...

Key Points

- Evolutive and scalable: features evolve together with the customer test plan
- Support of ISO 14443 A/B, ISO 15693, Mifare™, FeliCa™
- All communication parameters adjustable (field strength, modulation index, baudrate, ...)
- Support of active load modulation powered devices
- Integrated oscilloscope, for analog measurement to correlate with NFC Forum and EMVCo
- Full set of triple usage antennas: terminal simulation, card simulation, and resonance frequency/Q factor measurement
- Presence of a VNA, for resonance frequency, Q factor, and S11 parameter measurement
- Integration in customized manufacturing environments possible using a DII, or a LabVIEW driver

BUSINESS AREAS















Telecom

Banking

E-health

Semiconductor

Wearable

Supported protocols

ISO/IEC 14443-3 (proximity cards) (Type A/B)

106, 212, 424, 828 kbps`

Supported data rates

Asymetrical data rates supported VHBR (ASK&PSK) supported

B' (Innovatron™)

ISO/IEC 15693 (vicinity cards)

Supported communication speeds Low & high data dates, 1 out of 4 & 1 out of 256

ISO 18000-3 Mode 1

Mifare ™

FeliCa ™ (optionnal through a hardware add-on)

NFC Forum modes: Peer2Peer, Listening, Polling

NFC Forum tags (Tag types 1,2,3,4)

ISO 18092 (NFC-IP1)

Modes supported

Active/passive mode, in both Initiator/Target variantes

Raw mode: implementation of custom protocols and support of out of standard chips

Programmable parameters

Physical Parameters

Field strength, modulation index, rise&fall times

Generation of arbitrary waveshapes

Amplitude of the signal in smart card simulation mode

Logical parameters

Type A pause, FWT, type B framing, communication speed

Spy feature

Signals displayed

Field presence, modulation, sequences, bytes, I/O direction, baudrate change, triggers...

Available tests

Electrical testing

Resonance frequency measurement / Q factor)

Complex impedance (chip/antenna)

Magnetic field measurement

Generation of EMD (Electro Magnetic Disturbance)

Logical testing

Numerous timing controlled pre-implemented test sequences

Antitearing

Framing (parity error, CRC error, protocol error)

NI Services and Support

- Maintenance contracts:
 - Firmware/software updates
 - Hardware repair
 - Onsite customer support
 - Replacement tool
- Technical support located in Asia, Europe and Americas
- Training courses customizable :
 - knowledge level based
 - Time constraints
 - Topics of interest
- Debug and pre-certification of contact and contactless devices



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