

MP400 2CL4

A production tester for all types of contactless objects.

Smartcards, micromodules, inlays, and NFC devices.



+ New design

- New hardware architecture.
- Based on powerfull CPU ARM Dual-Core & FPGA.
- Ethernet GigaBit.
- OS Embedded Linux.
- 4 test heads per tester.

Support protocols

- ISO 14443 A/B
- Innovatron™
- ISO 15693
- Mifare™
- FeliCa™

Application domains

- Personalization.
- Pre-personalization.
- OS loading.
- Production test of smartcard & modules.

Business areas

- Telecom
- Banking
- E-health
- M2M
- E-Passport
- E-ID (driver licences, ID cards, ...)
- Micro-module production
- NFC

Supported tests

- Resonance frequency, Q factor, S11 measurement.
- Complex impedance (L, R, C).
- Hmin measurement.
- Chip load-modulation.
- Input sensitivity detection.
- Accurate definition of test parameters.
- SAM interface.
- GPIO extension.

Use case

- Production line testing.
- Personalization verification.
- Inlay and micromodule quality control.
- Module sensitivity assesement.

Specifications	
General	
NFC Simulation	Terminal emulation only
Testers	4 test heads
Rack	Compatible with rack x1, x4, x8, x16
Output terminal simulation	
Channel	2 TX per head
TX impedance	50Ω ± 1%
NFC Analog settings	
Field strenght, Carrier frequency, ASK Modulation, rise and fall times, pause width	
NFC Protocol settings	
FWT, Framing and bit-duration, data-rate	
Reception	
Channel	2 RX per head
NFC measurement	
Resonance Frequency, Q factor	
Complex impedance (chip/antenna), S11	
Load modulation amplitude	
Supported Protocols	
ISO/IEC 14443-3 (Proximity Cards) (Type A/B)	
Supported data rates	106, 212, 424, 848 kbps
	VHBR 1600, 3400, 6800 kpbs
	Asymetrical data rates supported
B' (Innovatron™)	
ISO/IEC 15693 (Vicinity Cards)	
Supported communication speeds	low data rate, high data rate (x1, x2, x4, x8) – One and Two Subcarrier
Mifare™	
Types supported	Classic, Light, Ultra Light, Ultra Light C
FeliCa™	
Mode supported	Polling, Read & Write without encryption
Available data rates	212 and 424 kbps

NFC Forum Tags	
Types supported	Tag types 2,3,4,5
ISO 18092 (NFC-IP1)	
Modes supported	Passive mode
Raw mode	
Implementation of custom protocols and support of out standard chips	

Key features.

Scalable, compatible design.

- **Modular architecture:** up to **32 test heads** per rack.
- **Rack compatibility:** works with **MP300** racks.

Automated terminal simulation.

- **Automation ready:** GPIO extension for external antennas and system automation (IX industrial connector).
- **Terminal simulation:** suitable for smartcard, NFC, banking, telecom, and e-ID device testing.

Full-feature performance.

- Multi protocol support.
- Fully programmable parameters.
- Advanced measurements.
- High-speed performance.

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