MP400 CL4
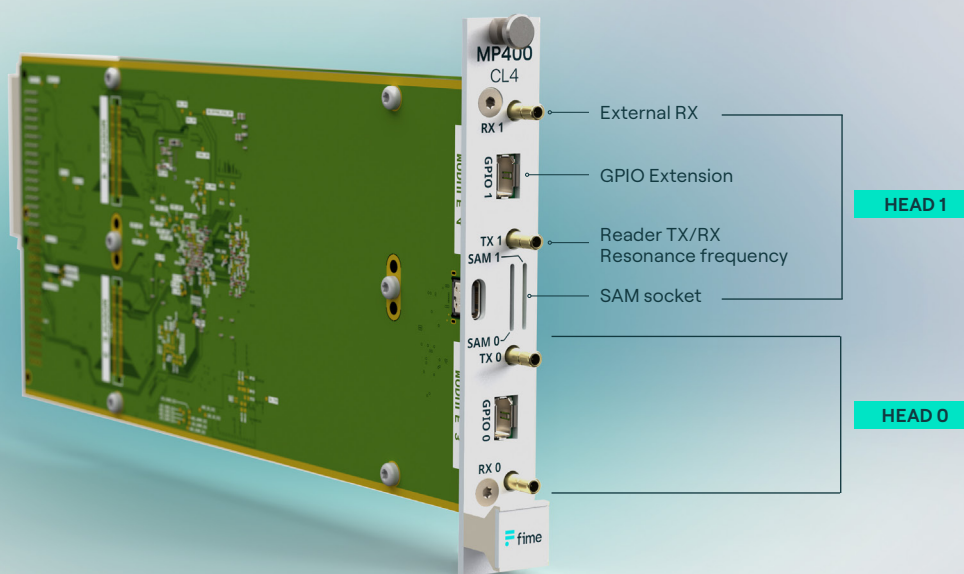
A production tester for all types of contactless objects.

Smartcards, micromodules, inlays, and NFC devices.

- MP400 CL4
- RX 1 — External RX
- GPIO 1 — GPIO Extension
- TX 1 / SAM 1 — Reader TX/RX, Resonance frequency
- SAM socket
- HEAD 1
- SAM 0 / TX 0
- GPIO 0
- RX 0
- HEAD 0

➕ New design

- New hardware architecture.

- Based on powerfull CPU ARM Dual-Core & FPGA.

- Ethernet GigaBit.

- OS Embedded Linux.

- 2 test head 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 assessement.

Specifications

General

NFC Simulation	Terminal emulation only
Testers	2 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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