

# MP300 CL3

# A PRODUCTION TESTER FOR ALL TYPES OF CONTACTLESS OBJECTS

Smartcards, Micromodules, Inlays, Smartcards readers, NFC devices, WPC Base stations and Mobile devices



### **SUPPORTED PROTOCOLS:**

- ISO 14443 A/B
- Innovatron™
- · ISO 15693
- Mifare™
- Felica™
- · WPC(Qi)

#### **APPLICATION DOMAINS:**

- Personalisation
- Pre-personalisation
- OS loading
- · Production test of NFC devices
- · Production test of WPC products

# **BUSINESS AREAS:**

- Telecom
- Banking
- E-health
- M2M
- E-Passport
- E-ID (driver licences, ID cards, ...)
- · Micro-module production
- NFC
- Wiresless power
- Mastercard CQM testing

## **SUPPORTED TESTS:**

- · Resonance frequency/Q factor
- Complex impedance (L, R, C)
- · Hmin measurement
- · Chip load-modulation
- · Input sensitivity detection
- Accurate definition of test parameters
- Coverage of both card and reader mode of NFC devices
- · Simulation of WPC mobile device and base stations



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#### **KEY POINTS:**

- Compatible with ISO/IEC 14443-3 and -4, ISO/IEC 15693, Mifare™, FeliCa™, Innovatron™ specifications
- Full management of the T=CL protocol
- Supports the highest bitrates (up to 848kbps by default, up to 6.8Mbps with the VHBR option)
- All physical parameters adjustable (field strength, carrier frequency, modulation index, rise and fall time of the modulation, ...)
- Advanced logical test features (response time measurement, modulation (positive/negative), short time between two
  commands, ...)
- Advanced electrical measurement features: chip impedance, resonance frequency, Q factor of a smartcard, load modulation
  of a chip
- Supports both terminal and smartcard simulation: the tool tests all modes of a NFC device using the same test antenna
- Supports test of WPC compatible devices in production in conjunction or independently from the NFC interface

ISO/IEC 14443-3 (PROXIMITY CARDS) (TYPE A/B)	
Supported data rates	106, 212, 424, 848 kbps
	Asymetrical data rates supported
	VHBR DSK 2 PSR
• B' (INNOVATRON™)	VIDIOSKE FOR
· ISO/IEC 15693 (VICINITY CARDS)	
Supported communication speeds	Low & high data dates, 1 out of 4 & 1 out of 25
- ISO 18000-3 MODE 1	
• MIFARE™	
Types supported	Classic, Light, Ultra Light, Ultra Light C,
- FELICA™ OPTIONNAL THROUGH A HARDWARE ADD	D-ON
Available data rates	212 and 424 kbps
NFC FORUM MODES	
Peer2Peer, Listening, Polling	
NFC FORUM TAGS	
Types supported	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 PROTOC	COLS AND SUPPORT OF OUT OF STANDARD CHIPS
PROGRAMMABLE PARAMETERS	
PHYSICAL PARAMETERS	
Field strength, modulation index, rise&fall times	
LOGICAL PARAMETERS	
Type A pause, FWT, type B framing, communicat	tion speed
AVAILABLE TESTS	
ELECTRICAL TESTING	
Resonance frequency measurement / Q factor	
Complex impedance (chip/antenna)	
Magnetic field measurement	
Measurement of the power generated by the B	Base Station