

MICROPROSS IS NOW

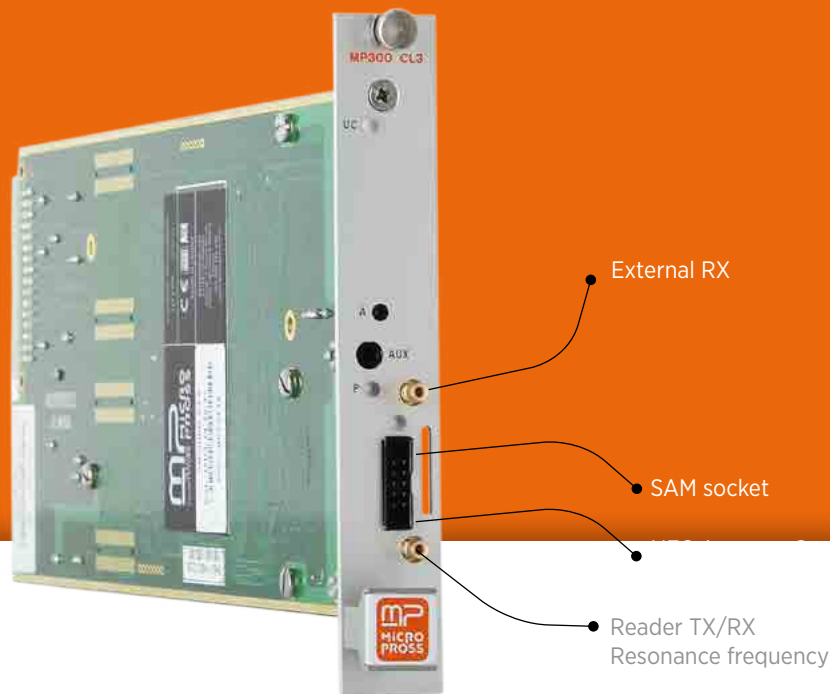


NUBICOM
(주)누비콤

www.nubicom.co.kr
070-7872-0701

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)

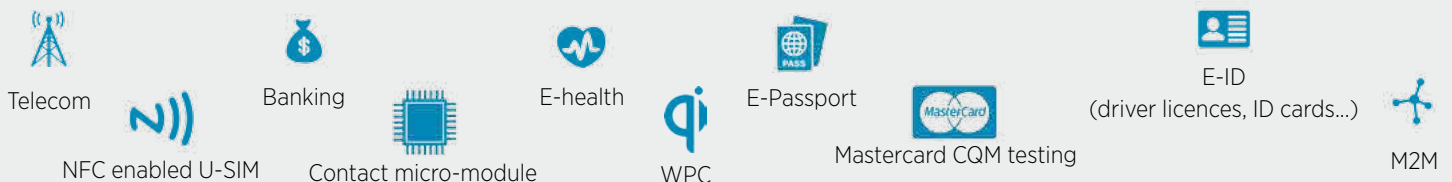
APPLICATION FIELDS:

- ▶ Personalization
- ▶ Pre-personalization
- ▶ OS loading
- ▶ Production test of NFC devices
- ▶ Production test of WPC products

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

Business areas



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.

SUPPORTED PROTOCOLS

▶ ISO/IEC 14443-3 (proximity cards) (Type A/B)	
Supported data rates	106, 212, 424, 848 kbps
	Asymmetrical data rates supported
	VHBR DSK 2 PSR
▶ B' (Innovatron™)	
▶ ISO/IEC 15693 (vicinity cards)	
Supported communication speeds	Low & high data rates, 1 out of 4 & 1 out of 256
▶ ISO 18000-3 Mode 1	
▶ Mifare™	
Types supported	Classic, Light, Ultra Light, Ultra Light C, ...
▶ FeliCa™ optionnal through a hardware add-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
▶ WPC (Qi)	
Simulation of Mobile device, and Base station	
▶ Raw mode : implementation of custom protocols 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, communication speed

AVAILABLE TESTS

ELECTRICAL TESTING
Resonance frequency measurement / Q factor
Complex impedance (chip/antenna)
Magnetic field measurement
Measurement of the power generated by the Base Station

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(주)누비콤

서울본사

서울특별시 영등포구 경인로 775(문래동 3가, 에이스하이테크시티 3동 2층 201호)
TEL: 070-7872-0701 FAX: 02-2167-3801 E-mail: sales@nubicom.co.kr

대전지사

대전광역시 유성구 덕명동로 22번길 10
TEL: 070-7872-0712 FAX: 02-2167-3801 E-mail: jbkim@nubicom.co.kr