MP300 ACL1

A REVOLUTIONNARY CONTACTLESS PROTOCOL ANALYSER, OPTIMISED FOR NFC TRANSACTIONS

Connection of the spy probe

Plug for synchronisation with external devices

SUPPORTED PROTOCOLS:

‣ ISO 14443 A/B
‣ Innovatron™
‣ ISO 15693
‣ Mifare™
‣ Felica™

APPLICATION FIELDS:

‣ Characterisation of contactless smart card & readers
‣ Interoperability debug
‣ Protocol debug

AVAILABLE TESTS:

‣ Analog waveshape display of both reader and card modulation

AVAILABLE ACCESSORIES:

‣ Licence for analog oscilloscope
‣ Licence for VHBR spying

SUPPLIED SPY PROBES:

‣ 100% non intrusive probe: is positionned next to the devices that will be spied and not in-between
‣ Flexible spy probe: to be used in the most difficult cases, and for analog waveshape measurement

Business areas

Telecom   Banking   E-health   M2M   NFC enabled U-SIM   E-Passport   E-ID (driver licences, ID cards...)

KEY POINTS

- Support of ISO/IEC 14443 A/B, ISO 15693, Mifare™, Felica™, NFC (NFC Forum, NFC-IP1 and -IP1)
- Automatic detection of baudrate changes
- Detailed graphical representation of the spied exchanges
- Revolutionary spy probe: positionned next to the devices that are spied, zero intrusivity is guaranteed
- Evolutivity to analog spy functionalities: the MP300 ACL1 embeds an oscilloscope, showing all waveshapes and other analog measurement
- Presence of numerous business oriented interpreters, including ICAO, EMVCo, Innovatron™ (B'), NFC-IP1, NFC Forum for a better understanding of all spied exchanges.
- Only one spy probe is needed why bother with one PCD spy antenna, and one PICC spy antenna?
- Successfully deployed at all NFC chip manufacturers, and all major NFC handset designers
- Tool used at NFC Forum plugfest meetings

SUPPORTED PROTOCOLS

ISO/IEC 14443-3 (proximity cards) (Type A/B)	
Supported data rates	106, 212, 424, 828 kbps
	Asymetrical data rates 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 ™	
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
Raw mode : implementation of custom protocols and support of out of standard chips	

SPY FEATURE

Signals displayed	Field presence, modulation, sequences, bytes, I/O direction, baudrate changes, triggers...
ELECTRICAL TESTING	
Analog viewer: display of the signal envelope	