

# Premium quality test and personalization tools

for smart card industry

## Contact tools for laboratory

New

### MP60/MP65

The multiprotocol reader for contact smart card tests and validation



- ✓ Fast multiprotocol smart card reader: ISO 7816-3:T=0 and T=1, USB 2.0, interchip USB (optional), SWP/SHDLCL
- ✓ Ideal for validation and quality inspection
- ✓ PCSC interface (coming soon)

New

### MP300 TC3

The new reference for contact smart card testing



- ✓ Numerous adjustable parameters
- ✓ Perfect repeatability of test scenarios
- ✓ Trace visualization & analysis
- ✓ Advanced measurements capabilities
- ✓ Injection of perturbations in the dialog
- ✓ Support of ISO/IEC 7816-3 (T=0 & T=1), USB 2.0, USB-IC, SHDLCL/SWP

### MP300 SC1

To enjoy NFC experience, can you afford to miss it?



- ✓ SWP and ISO 7816-3 spy
- ✓ SWP/SHDLCL/HCL protocol analysis
- ✓ Measurements functions
- ✓ Optional SWP smart card simulator with advanced tests functions

## Contactless tools for laboratory

New

### MP300 TCL2

The contactless laboratory solution for NFC characterization



- ✓ Contactless smart cards reader and tester for laboratory dedicated to NFC
- ✓ Numerous adjustable parameters
- ✓ Numerous protocols supported (see MP300 TCL1)
- ✓ Trace visualization & analysis
- ✓ Resonance frequency in active and passive mode, chip impedance, field, load modulation measurements

### MP300 SCL1

The contactless spy and terminal testing laboratory tool



- ✓ ISO 14443 A/B, ISO 15693, Innovatron, FeliCa™ spy and protocol analyser
- ✓ ISO 14443 A/B, ISO 15693, Innovatron, FeliCa™ smart card simulator
- ✓ Perfect tool for contactless reader validation

### MP300 TCL1

The contactless laboratory solution for chip characterization



- ✓ Contactless smart cards reader and tester for laboratory
- ✓ Numerous adjustable parameters
- ✓ Support ISO 14443 A/B, Innovatron, Mifare™ (classic, light, ultralight), FeliCa™, ISO 15693 (Vicinity), ISO 18000-3 Mode1
- ✓ Trace visualization & analysis
- ✓ Resonance frequency, chip impedance measurements

### STAR 3150

The reference in smart card simulation



- ✓ Smart card spy and simulator
- ✓ Protocol analyzer
- ✓ Protocol errors generation
- ✓ Supports class A, B and C smart cards

### MP300 TC2

The ultimate solution for contact smart card testing



- ✓ Numerous adjustable parameters
- ✓ Perfect repeatability of test scenarios
- ✓ Trace visualization & analysis
- ✓ Advanced measurements capabilities
- ✓ Injection of perturbations in the dialog
- ✓ Support of ISO/IEC 7816-3 (T=0 & T=1), USB 2.0

## Contact tools for production

### MP300 MHC6

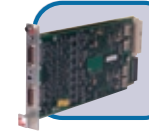
Mass production - Contact smart card reader



- ✓ ISO 7816-3 fully compliant
- ✓ Fast and customizable reader
- ✓ 6 independent heads per board
- ✓ Best efficiency/price ratio

### MP300 MC1

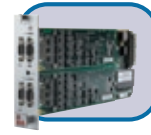
Multi-protocols production reader



- ✓ Supported protocols SWP, USB, MMC, ISO 7816-3
- ✓ Customizable reader (V<sub>cc</sub>, frequency, V<sub>cc</sub>, waiting times...)
- ✓ 4 independent heads per board
- ✓ Best value for money

### MP300 C2

Industrial smart card reader and tester



- ✓ Fast smart card production reader
- ✓ Support of all ISO 7816 protocols and custom protocols
- ✓ Support of USB 2.0 protocol
- ✓ Accurate measurement features
- ✓ Advanced test functions
- ✓ Adjustable electrical and protocols parameters

### MP300 CSWP

Industrial smart card reader and tester with SWP

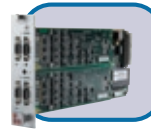


- ✓ SWP, ISO/IEC 7816, USB 2.0
- ✓ Industrial contact coupler
- ✓ Advanced test functions
- ✓ Production & Laboratories

New

### MP300 C3

High quality smart card reader and tester for demanding customers



- ✓ Fast smart card production reader
- ✓ Support of all ISO 7816 protocols and SHDLCL/SWP custom protocols, USB 2.0 USB-IC
- ✓ Accurate measurement features
- ✓ Advanced test functions
- ✓ Adjustable electrical and protocols parameters

### MP300 TPC1

Customizable reader MMC/ISO/USB



- ✓ Support of the latest protocols available: MMC, ISO/IEC 7816, USB 2.0
- ✓ Industrial contact coupler
- ✓ Electrical test functions
- ✓ Production & Laboratories

## Contactless tools for production

### MP300 CL2

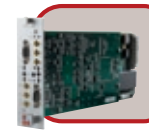
Industrial contactless smart card reader and tester



- ✓ Industrial contactless smart card reader and tester
- ✓ Support of ISO 14443 A/B, Innovatron, Mifare™ (classic, light, ultralight), FeliCa™, ISO 15693 (Vicinity), ISO 18000-3 Mode1
- ✓ High baud rates
- ✓ Can be assembled with a MP300 contact reader/tester

### MP300 MT1

Industrial contact and contactless smart card reader and tester



- ✓ Industrial contactless smart card reader and tester
- ✓ Support of ISO 14443 A/B, Innovatron, Mifare™ (classic, light, ultralight), FeliCa™, ISO 15693 (Vicinity), ISO 18000-3 Mode 1
- ✓ High data rates
- ✓ Resonance frequency, chip impedance, field, load modulation measurements
- ✓ ISO/IEC interface for contact or combi card



Cables design



Test heads and antennas design



Iso test bench:  
10373-6 (Cards & e-Passports)  
18047-3, NFC



Software development  
for laboratory and production



Wide range of rack housing available

Accessories

# Whatever you need, we have the solution !

		Hardware features			Remote communication interface			Packaging available			Contact technology protocols					Contactless technology protocols					Test features				Applications																							
		Processor	Flash size	Ram size	Ethernet	USB 2.0	RS232	Number of test heads per module	Number of test heads per mother board	Maximum inside one rack	ISO 7816-3	Memory chips	USB 2.0	USB-IC	SWP	MMC 4.1/SD	ISO 14443-3 A/B	ISO 15693 (Vicinity)	ISO 18092 (NFCIP1)	ISO 18000-3 mode 1	Mifare™	FeliCa™	Internal Spy	External Spy	Chip emulation	Parametric testing	Test suites available	Wafers	Micromodules	Smart cards	Os loading	Pre personalization	Personalization	SD/MMC cards	Protocolary testing	NFC object	e-Passport	RFID tags	Full characterization									
Contact	Production	MP300 MHC6	Freescap Coldfire 5407	16MB	128MB	•	•	•	6	6	48	•																•	•	•	•	•	•															
		MP300 MC1	Freescap Coldfire 5407	16MB	128MB	•	•	•	4	4	64	•	•	LF, FS		212kb/s	•												•	•	•	•	•	•	•													
		MP300 C2	Freescap Coldfire 5407	16MB	128MB	•	•	•	1	4	32	•	•	LF, FS											•				•	•	•	•	•	•														
		MP300 C3	Freescap Coldfire 5407	16MB	128MB	•	•	•	1	4	32	•	•	LF, FS		up to 1.6Mb/s									•				•	•	•	•	•	•														
		MP300 TPC1	Freescap Coldfire 5407	16MB	128MB	•	•	•	1	4	32	•	•	LF, FS			•								•				•	•	•	•	•	•														
		MP300 CSWP	Freescap Coldfire 5407	16MB	128MB	•	•	•	1	4	32	•	•	LF, FS		212kb/s										•	Telecom		•	•	•	•	•	•														
	Test	MP60	Freescap Coldfire 5270	2MB	8MB		•		1	1		•	•	LF, FS, HS		up to 1.6Mb/s														•																		
		MP65	Freescap Coldfire 5270	2MB	8MB	•	•		1	1		•	•	LF, FS, HS	Op-tional	up to 1.6Mb/s														•																		
		STAR 3150	Freescap Coldfire 5407	1MB	64MB	•		•	1	1		•	•											•	•	•																						
		MP300 TC2	Freescap Coldfire 5407	16MB	128MB	•	•	•	1	1		•	•	LF, FS										•	•	•	•																					
		MP300 SC1	Freescap Coldfire 5407	16MB	128MB	•	•	•	1	1		•	•			up to 1.6Mb/s								•	•	•		Telecom			•																	
		MP300 TC3	Freescap Coldfire 5407	16MB	128MB	•	•	•	1	1		•	•	LF, FS, HS	•	up to 1.6Mb/s								•	•	•	•		Banking, Telecom																			
Contactless	Prod	MP300 CL2	Freescap Coldfire 5407	16MB	128MB	•	•	•	1	2	32					•	•	•	•	•	•							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
		MP300 MT1	Freescap Coldfire 5407	16MB	128MB	•	•	•	1	2	16	•					•	•	•	•	•	•			•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
	Test	MP300 TCL1	Freescap Coldfire 5407	16MB	128MB	•	•	•	1	1							•	•	•	•	•	•			•	e-Passport Banking																						
		MP300 SCL1	Freescap Coldfire 5407	16MB	128MB	•	•	•	1	1							•	•	•	•	•	•			•	Banking																						
		MP300 TCL2	Freescap Coldfire 5407	16MB	128MB	•	•	•	1	1							•	•	•	•	•	•			•																							

LS = low speed, FS = full speed, HS = high speed

Detailed specifications available upon request. January 2009. Non-contractual specification subject to change without notice

Test tools creator

