

# STAR 3150

Laboratory Range

The reference in smart card simulation



- ✓ Smart card spy and simulator.
- ✓ Protocol analyzer.
- ✓ Able to generate protocol errors.
- ✓ Supports class A, B and C smart cards

## STAR 3150 Overview

Complete and ideal test tool, the STAR 3150 combines two products :

- Smart card simulation : used to test terminal protocols and applications, the STAR 3150 is certified by EMV (level1, VISA referential). All protocol errors like parity error, guardtime error, ETU shift, etc.. are reproducible
- Spy session : the STAR 3150 can spy the communication between a card and a terminal then show the result with StarScope.

In both cases (spy or simulation), the STAR 3150 traps all transitions on all signals between the ICC and the terminal, and is therefore the perfect tool for protocol analysis.

# STAR 3150

## Technical specifications

### Logic and protocol analyzer

#### MicroSmart® technology :

- Signal capture on all contacts (precision 50 ns).
- Runs with clock up to 20 MHz .
- Serialization of data with utmost respect to the standards, even in case of clock frequency shifts
- Setting of Fi and Di factors
- Automatic baudrate
- Captures other events: parity error, ETU change, clock detection, start bit, completion of character.
- Unlimited capture depth.
- Immediate sense of the transaction direction (ICC to IFD or IFD to ICC).
- Clock frequency measure (1 to 20 MHz, precision 0,1 %).

### ICC simulator

- Protocol T=0,T=1, or out of standard
- Programmable FI / DI
- Programmable guardtime, with a 1 clock precision
- Transmission and reception error generation (protocol and application) : parity, guard times, ETU, T=1 blocks, APDU...
- Programmable number of character repetitions to the terminal (in case of error)
- ETU counter available

### Others

#### Software

Starscope

### Probe

- . Single side gold contacts, flexprobe for Sim or ISO card.
- . Test points for oscilloscope
- . Virtually no interference
- . Status Leds: Vcc, Card detected, low voltage (class A,B or C).
- . Accepts Vcc from 1.8V



### Optional devices

#### EMV level 1 test suite

Must (test engine)

### Our service

We provide you not only an useful product but also an efficient technical support and our experience. Micropross is at your disposal for any user requirement and integration support.

Micropross is an ISO 9001 V 2000 certified company.



VINTEL Corporation

33, rue Gantois - 59000 Lille France  
Phone. +33 (0)3 20 74 66 36  
Fax. +33 (0)3 20 74 66 35  
smartcards@micropross.vintel.eu  
www.micropross.vintel.eu