

## MiniMove

Pocket Tracer for All UICC Interfaces



MiniMove is COMPRION's ultra compact trace tool for contact-based UICC interfaces. Although it is extremely small it supports all protocols: ISO/IEC 7816, SWP/HCI, IC-USB.

Powered via the USB connection to the host PC it is the ideal field testing device even at remote places.

COMPRION's powerful Interoperability Test Center software grants full access to all functionalities of MiniMove.

Optional OTA Remote Management Translators enable debugging of messages over all transport protocols. If pre-shared keys are entered, decryption to human readable format speeds up analysis.

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02

### Main Capabilities

- Tracing of communication on all contacts:
  - ISO/IEC 7816 1-4
  - SWP/HCI
  - IC-USB
- Clearly arranged and synchronized layer views
- Interpreter for SIM, USIM, ISIM, R-UIM, SAT, USAT, CCAT
- Powerful analyzers for timing measurements and error identification
- USB power supply (Host PC)
- Remote control

### Use Cases

- Interoperability testing (smart card/terminal)
- Field testing (mobile usage)
- Development/debugging of
  - Smartphones and chipsets
  - Smart cards and UICCs
  - M2M/IoT devices
  - Remote File Management and Remote Application Management
- Quality assurance

# Specification

## CAPABILITIES

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### ISO/IEC 7816 Monitoring

- Universal Translator for GSM, W-CDMA, LTE, CDMA2000, SIM/SAT, USIM/USAT, CSIM/CCAT and ISIM
- Provides a structured view of the terminal profile
- Option: OTA Remote Management Translator over
  - HTTPS transport protocol
  - CAT\_TP transport protocol
  - SM-PP transport protocolKey Management dialog for decryption
- Supported ISO/IEC 7816 protocols: T=0 and T=1

### SWP/HCI Monitoring

- Based on ETSI TS 102 613/ETSI TS 102 622
- Summary view visualizes all channels in parallel

### General Monitoring Features

- Synchronized visualization of protocol specific information displayed in
  - Protocol layer view
  - Transport layer view
  - Application layer view
  - Summary view
  - Info view
- Timing measurements on APDU level: two clicks
- Automated protocol compliance check highlighted in all views and explained in info view

### Option Physical Layer View

- Physical layer with trace lines
- Digital representation of the analog signals

## OPTIONS

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### COMPRION MoVie

- Free, stand-alone viewing software for logfiles traced with COMPRION test tools

### Adaptors Connect all Formats

- ID-1 for cards in full-size format or PISA M2M
- Plugs for 2FF and MFF2
- Flex Adaptors for orientations A to D

## HOST REQUIREMENTS

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- Processor operating frequency: min. 2 GHz (2 x 1.5 GHz dual core or more recommended)
- RAM: min. 8 GB
- Hard disc available space: min. 10 GB
- USB interface: min. USB 2.0 highspeed
- Windows 10

## DIMENSIONS

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- W x D x H: 82 x 116 x 31 mm

## GENERAL FEATURES

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- Supported smart card voltage: 1.2 V / 1.8 V / 3 V / 5 V
- Speed: max. 8 clock cycles/etu at 10 MHz
- Plug-in card slot
- Input contacts: Voltage range: 0-5 V
- Time measurement performance:
  - Resolution: 20 ns
  - Measurement units: etu, second

## SCOPE OF DELIVERY

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- MiniMove (HW)
- USB cable
- Travel bag
- Set of four Flex Adaptors (either 2FF, 3FF or 4FF)
- Interoperability Test Center (SW)



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