UL SMARTCONNECT

Who is it for?

The UL SmartConnect is a handheld, wireless and portable test tool for anyone in payment or mobile telecoms industry that needs to analyze the communication between card acceptance devices and card form factors, or between mobile handsets and SIM/USIM cards or between M2M and Consumer devices and eUICC.

Why do you need it?

The compact, wireless and portable SmartConnect testing device is used for contact and contactless card simulation and card spying. It lets you easily set up a cable-free test environment and control your card acceptance device testing using a wireless connection.

The UL SmartConnect works seamlessly with UL's payment acquiring test tools and UL's mobile telecoms tools, such as UL Brand Test Tool and UL Handset Test Platform. Combined with UL Card Spy or UL Mobile Spy, it offers real-time spying the communication, including measuring the transaction time performance of your card accepting device.

What is inside?

UL SmartConnect features contact and contactless card and mobile simulation, as well as spying and performance measurements. UL SmartConnect connects via Bluetooth or USB to a tablet or laptop running a UL Test Tool to control and manage it.

Key benefits

- Battery-powered, wireless card simulation and spying
- Portable and compact handheld device can be used for in-the-field testing
- Set up a cable-free test environment for device testing and spying
- Interchangeable probes for different (e)UICC positions in the device Fast wireless connectivity with Bluetooth
- Interoperable with UL Test Tools

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Specifications

Features

- Contact interface: ISO 7816
- Contactless interface: ISO 14443 Type A & Type B, MIFARE
- Probes for ID-1 and 4 different orientations for SIM, MicroSIM, NanoSIM, and MFF2
- Connects using Bluetooth Low Energy or USB
- Micro-USB connection for charging
- Battery powered, no additional power supply
- 1 day battery life
- Fast Charge to 100% in 3 hours

SmartTesting portfolio

The SmartConnect is part of the SmartTesting portfolio developed by UL. The portfolio consists of dedicated hardware components for testing smart cards and terminals (POS and ATM). These include UL SmartStripe (for magnetic stripe emulation), UL SmartLink Box (for contact chip emulation) and UL SmartWave Box (for contactless card and NFC mobile phone emulation). ATMs and other devices equipped with a motorized reader with a shutter can be tested with Smart ATM Test Cards.

Software

The UL SmartConnect testing device can be used with:

UL Brand Test Tool

The UL Brand Test Tool (UL BTT) allows you to validate the configuration of your EMV terminals - both Automated Teller Machines (ATM) and Point of Sale (POS) terminals. It offers the required tests to verify acceptance of EMV cards for Visa, Mastercard, American Express, Discover, Diners Club, UnionPay and JCB. Use UL BTT to verify that you have an EMV-compliant and payment association-certified terminal that can perform trouble-free transactions within your payment infrastructure.

UL Card Simulator

The UL Card Simulator simulates the real behavior of a payment card without the need for any physical magnetic stripe or EMV cards. It simplifies the terminal testing procedure in many ways, mainly by eliminating the dependency on EMV issuers and schemes for physical test cards. UL Card Simulator includes support of card images for brand testing of Visa, Mastercard, American Express, Discover, Diners Club, UnionPay and JCB.

UL Card Spy

The UL Card Spy is able to spy the communication between a smart card and POS terminal. It helps you to view the card-to-terminal messages and vice versa and to pinpoint any interoperability-related issues.

UL Mobile Spy

The UL Mobile Spy allows to analyze, translate and visualize the communication between mobile handsets and SIM/USIM cards or between M2M and Consumer devices and eUICC.

UL Handset Test Platform

The UL Handset Test Platform simulates the real behavior of a SIM or USIM/UICC card without the need for any physical cards. It allows you to create proprietary handset test scripts via UL's powerful Java API that can be run against a Network Simulator or against the real cellular network. It also provides a remote API to allow you to integrate it within your own test environment and to automate your testing.