

UL SmartConnect

Overview of UL SmartConnect

UL SmartConnect is a hand-held, wireless and portable test tool for anyone in the payment or mobile telecoms industry who needs to analyze communications between:

- Card acceptance devices and card form factors
- Mobile handsets and SIM/USIM cards
- GSMA M2M and Consumer devices and eUICC

Benefits

The compact, wireless, portable UL SmartConnect testing device facilitates contact and contactless card simulation and card spying. Easily set up a cable-free test environment and control your card acceptance device testing process using a wireless connection (not applicable for mobile telecoms industry testing).

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

Features

UL SmartConnect features contact and contactless card and UICC 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, compact hand-held device 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



Specifications

Features

- Contact interface: ISO 7816
- Contactless interface: ISO 14443 Type A (including MIFARE) and Type B
- Probes for ID-1 and four different orientations for SIM, MicroSIM, NanoSIM and MFF2 form factors
- Connects using Bluetooth Low Energy or USB
- Micro-USB connection for charging
- Battery-powered; no additional power supply
- One-day battery life
- Fast charge to 100% in three hours



SmartTesting portfolio

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

Software

Use the UL SmartConnect testing device with:

UL Brand Test Tool

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 provides the tests required 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

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.

UL Card Spy

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

UL Mobile Spy

UL Mobile Spy can analyze, translate and visualize the communication between mobile handsets and SIM/USIM cards or between GSMA M2M IoT or 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 physical cards. It allows you to create proprietary handset test scripts via UL's powerful Java API that you can run against a network simulator or the real cellular network. It also provides a remote API to allow you to integrate it within your own test environment and automate your testing.

For more information, visit [UL.com/smartconnect](https://www.ul.com/smartconnect).



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