

SMART-POS ID-41



ID41 SMART-POS is a rugged and portable device reference design. This terminal has a number of elements that make up the better solution to release an Android POS to the market. It is a standalone device that combines the Kinetics NXP K81 with more than 20 years of know-how and expertise on Card Payment devices to avoid technology and non-certification risks by the collaboration with Intelligent Data & FlyPOS partnership.

It's most important technical characteristics give an idea of the power of this SMART-POS: ANDROID OS, 5.5" Touchscreen, security controller MK81 running EMV L1&L2, MicroSIM, Micro SD card slot, payment system (EMV, PCI), Contactless, 2G/3G/4G communications, USB-C connectivity, Bluetooth and WiFi, headphones, speaker and microphone, QR codes camera etc...

The terminal is completely modular and flexible to produce in several versions, (with/without), Printer, Barcode scanner, Video cameras, Biometric, etc. High-tech or Price sensitive configurations.

One of its principal goals is to reduce the time to market up to zero, moreover reducing investments on R&d and Industrial to a variable license model based by business success. It has a SDK (Software Development Kit) that enables third parties to develop solutions/applications SW with fully tested hardware. Furthermore, white labelling is possible, going to the market with customer's brand.

It is important standing out that TFF will compliant with all the standards for financial transactions: EMV L1, EMV L2, PCI 5.1 certified, MasterCard, Visa, AMEX and others optionally.

ID41 Technical Specifications:

CPU

Multimedia ultra-low-power Quad core A7, up to 1.1GHz MSM8909 applications processor. It also has a Graphical Accelerator Qualcomm® Adreno™ graphics processing unit (GPU).

Memory

RAM: 1 to 2Gb.
Flash: 8 to 16GB.
External microSD.

OS

ANDROID & LINUX.
API interface for all payment devices and readers.

User Interface

Large 5.5" Display IPS HD Full Colour.
Touch Screen panel with Signature Capture.
4 Navigation keys.
Backlight regulated.

Payment Systems based on NXP Kinetis K81

EMV Level1 (Contact & Contactless)
EMV Level2 Contact.
PCI Compliant 5.1.

Magstripe Reader

Simultaneous 3 tracks (1/2/3).
ISO 7811, Two ways reading.

Smart Card Reader (NXP TDA8035)

ISO7816 1,2,3, EMV level1. Protocols T=O and T=1.
2x SAM Id00.

Contactless and NFC (NXP PN5180)

ISO 14443-4 Mifare.
Mastercard PayPass.
VISA PayWave.
American Express ExpressPay.

Barcode Scanner

Image Sensor (Android Camera 8 Mpx).
Led light + Pointing led.
Rotational sensitivity: Omnidirectional.

Different Bar Codes:

1D, 2D: QR Code, Micro QR, DataMatrix, Aztec Code,
Maxi code, PDF: PDF417, Micro PDF417.

Printer (Optional)

58mm Thermal Printer, High Resolution 384 dots/line.
Speed 85 mm/s.

Finger Print sensor (Optional)

UIDAI (Unique Identification Authority of India)
Certified Biometric Authentication Device.

Security and ruggedness

IP54.
Anti-Shock Protection: 1,5 meters.
CE on Electromagnetic Compatibility.

Communications

GSM/GPRS/EDGE/UMTS/ 4G LTE Quad band
WiFi 2.4G/5.8G, 802.11b/g/n/a.
Bluetooth 4.1 BLE.
GNSS: GPS, GLONASS, BeiDou.
USB 3 and 2.0 (Host and OTG).

Terminal Management System.

Mobile Device Management (MDM)

Multimedia and PhoneCalls

Microphone and
Headphone.
Phone call support.

Power Supply

Li-Ion Battery: 4,5 Ah at
3,7 Vdc (16,6 Wats/h).
Qi Wireless charger and
USB.

