Newland X800

Compact Android POS System with inbuilt payments

With a super quick processor and extensive memory footprint, X800 is an ideal solution running a wide variety of payment and business-management applications at the point-of-sale.

- Dedicated merchant and customer displays for seamless interaction
- High-speed transaction processing
- Multiple communication options

Specifications —

OS

Android 10.x

Application Processor

AP: Octa-Core Cortex A53, 1.8GHz, SP: Arm Cortex M3 security core

Memory

2GB LPDDR4+16GB eMMC, 3GB LPDDR4+32GB eMMC, MicroSD card slot up to 256GB

Display

8-inch portrait IPS display, resolution of 800 x 1280, capacitive multi-touch screen

Customer Display

5-inch landscape IPS display, resolution of 800 x 480, capacitive multi-touch screen

Wireless Communication

4G / 3G / 2G, Wi-Fi (802.11 a/b/g/n/ac) 2.4G&5G, Bluetooth 2.1 EDR/3.0 HS/4.2 LE

Positioning

GPS/BEIDOU/GLONASS/GALILEO/QZSS/SBAS

Magnetic Card Reader

Triple track, bi-directional, conforming to ISO 7810/7811/7813

Smart Card Reader

EMV L1/L2, conforming to ISO 7816, 1.8V/3V/ 5V, synchronous & asynchronous, T=0 & T=1

Contactless Card Reader

EMV Contactless L1, conforming to ISO 14443 Type A/B, Mifare , Felica

Camera

2 MP fixed focal front camera, support 1D/2D code payment, 2 MP fixed focal rear camera, support 1D/2D code payment

Audio

1 x Speaker, 1 x Microphone, 1 x Audio JACK, support audio recording and media play

Keypad

Secure virtual keypad for PIN entry, 1 x power button

Printer

High-speed thermal printer, 80mm/s Paper roll diameter: 50mm Paper width: 58mm

Peripheral Ports

1 x Type-C, USB2.0 OTG, Pogo Pins

Battery

Li-ion battery, 3.8V/6000mAh/22.8Wh

Card Slots

2 x SIM, 1 x SAM, 1 x SD, 1 x SIM, 2 x SAM, 1 x SD

Power Supply

Input: 100-240V AC 50/60Hz Output: 5.0V DC,3A

Docking Station

Charging base

Dimensions

274.9mm(L)*123.4mm(W)*101.6mm(H)

Weight

895g including battery

Expansion HUB

Wired: RS232 (RJ12 / RJ11), 2 x USB-A, Type-C, Ethernet (RJ45), Wireless: RS232 (RJ12 / RJ11), 2 x USB-A, Type-C, Ethernet (RJ45)

Environment

Operating temperature: 0°C~50°C (32°F~122°F), Storage temperature: -20°C~70°C (-4°F~158°F), Relative humidity: 5%~93% (Non-condensing)

Certifications

PCI PTS 6.x, EMVL1/L2, EMV Contactless L1, PayPass, payWave, American ExpressPay,, Discover D-PAS, UnionPay QuickPass, JCB, TQM, CE, RoHS, CB, FeliCa, MIC, BIS, Rupay, MCCS, Sabe