



## Bus Validator P18-Q

### General

P18Q is a new generation bus validator machine designed with industrial grade control chips, which can fully meet the rapid development of the transportation industry and various application scenarios for fast payment and verification of various media tickets, including EMV bank cards, transportation cards, 2D barcodes (paper/mobile), mobile wallets, etc.

### Features

- Robust Design: IK07 and IP54 protection standards for various harsh and complex application environments
- Various media tickets Validation: Supports EMV open-loop payment, closed-loop payment, and digital/paper QR code payment, Facial recognition function is optional
- Friendly design for assembly/disassembly: Designed with pole mount kit with quick release mechanism;
- Conspicuous interface prompt design: 450cd/m<sup>2</sup> screen brightness, four LED indicator lights for trading alerts, Clear and durable card tapping prompt in the card swiping area
- Applications: Buses, metro, tram, entertainment venues, and event ticket validation

### Specifications

<b>Main control hardware configuration</b>	Processor: KunT11 4 Cores Cortex-A53,2.0Ghz
	Operating System: Android 9.0
	Memory: LPDDR4X 2GB + eMMC 16 GB (4GB+64GB at optional)
<b>Power</b>	Supply Voltage: 9-48 V DC
	Over Voltage Protection: Supported
	Over Current Protection: Supported
	Power-failure protection: Supported
<b>Peripheral Ports</b>	1 * RS232 interface with 5v voltage output
	1 * RS485 interface with 5v voltage output
	1 * Ethernet (Built-in 10/100-base-T with RJ45 connector)
	2 * USB 2.0 Host Full Speed
	1 * USB Type C OTG interface
<b>Communications</b>	4G LTE GSM: B3/5/8 WCDMA: B1/5 TD-SCDMA: B34/39

	TDD LTE: 38/39/40/41 FDD LTE: B1/3 WiFi: IEEE 802.11 b/g/n/ac GNSS: GPS/AGPS, GLONASS, Beidou Bluetooth: BT4.0 + BR/EDR + BLE
Barcode Scanner	1D Barcode Scanning 2D Barcode Scanning QR Code Scanning
Contactless Card Reader	Standard: ISO-14443 A & B part 1-4 Protocol: Mifare® Classic Protocols, T=CL Operating Distance: Up to 50 mm Operating Frequency: 13.56 MHz <b>Certificate:</b> Contactless EMV L1, Visa-Paywave, Mastercard-Paypass
SAM Card Interface	Number of Slots: 4 * ID-000 slots Card Connector Type: Contact Standard: ISO/IEC 7816 Class A, B (5V, 3V, 1.8V) Protocol: T=0 or T=1
LCD Display	600 * 1024 TFT LCD display with backlight, 6.95 inch (optional touch screen) Secondary screen(optional): 1024*600, LVDS 450(TYP) Cd/m <sup>2</sup> Luminance
Other Features	Speaker: Supported Buzzer: Supported LED Status Indicators: 4 LEDs for indicating status for reader(from left most: blue, yellow, green, red) 1 LED for QR Status which below the Scanner(need software control) 2 Back LEDs : Red,Green 8 pieces of 4-bit nixie tube TF card:Supported Real Time Clock
Optional functional modules	Face recognition: Binocular camera Receipt printer: 58MM thermal receipt with auto-cutter Hidden cable box
Environmental	Work Conditions : Temperature: -30°C ~70°C Humidity: 5% to 93%, non-condensing Storage temperature: -40°C ~+85°C
Certifications/Compliance	CE/FCC, RoHS, CCC, IP54, IK07, E-mark
Firmware Upgrade	USB or MDM



### Applications

- Bus, Mini Bus
- Metro station, Tram station
- Railway station
- Event entrance
- Toll or Parking station etc.

### Picture

