Linux System Bus Validator P18-L2

General

1. The P18-L2 Bus Validator supports all smart cards compliant to ISO14443 Type A & B, Mifare Classic, DES Fire, Felice, built-in the embedded powerful 32bit ARM Cortex-A7 1 GHz processor. There are 4 SAM sockets for holding Purchase SAM to ensure the security and integrity of the transactions.
2. With the integrated smart card readers, graphical LCD, audio and LED indicators, P18-L2 Bus Validator is perfectly suitable for various types of automatic fare collection systems, e.g. for buses, trams and other transportation means. With GPS features, the P18 enables you to locate the vehicle and set fare flexibly with reference to distance.
3. With the barcode scanner built-in, the P18 can support multiple cashless payment methods. Besides, the P18-L2 can support bank card payment by EMV certificate.

Features

1. 32-bit ARM Cortex-A7 528 MHz
   - 512 MB DDR
   - 8 GB EMMC
   - External 64 MB SPI Flash
   - 8 KB FRAM
2. Linux 3.0 OS
3. 160×80 dot matrix LCD display with backlight
   - 4.3 inch
4. 4 LED Status Indicators
5. 2 function keys
6. Support power switch
7. Built-in buzzer
8. Built-in audio speaker
9. Contactless smart card interface
   - ISO 14443-Compliant, Type A & B Standard, parts 1 to 4, T=CL protocol
   - Mi Fare® Classic, Mi Fare Ultralight C, Mi Fare EV 1, Mi Fare DES Fire
   - Felice, ISO 18092 compliant
10. 4 x ISO7816 SAM Sockets
11. Support RS232 Interface
12. Support RS485 / Ethernet / USB Interface
13. Firmware Upgradeable
14. Real-Time Clock (RTC)
15. Wireless connectivity

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- Mobile communication
  - ✓ GSM/GPRS 900/1800 MHz
  - ✓ WCDMA 900/2100MHz
  - ✓ TD-SCDMA
  - ✓ FDD-LTE (Band 1/3)
  - ✓ TDD-LTE (B38/39/40/41)
  - ✓ One SIM socket with the size of ID-000
- WiFi
- 4G
- GPS support

16. Certifications
    - CE
    - FCC
    - RoHS
    - Contactless EMV Level 1
    - IP54

Specifications

OS	Linux 3.0
Processor	32-bit ARM Cortex-A7 528GHz
Memory	
DDR (RAM)	512 MB
EMMC (Flash)	8 GB
SPI Flash	64 MB
FRAM	8 KB
Power	
Supply Voltage	9 – 48 V DC
Supply Current	Max. 2A
Over Voltage Protection	Supported
Over Current Protection	Supported
Connectivity	
RS232	3 lines R*D, T*D and GND without flow control
RS485	3 lines A, B and GND
Ethernet	Built-in 10/100-base-T with RJ45 connector
USB	USB 2.0 Host Full Speed
GSM/GPRS/EDGE	900 MHz/1800 MHz
Dual Band	B1/B8
Dual Band TD-SCDMA	B34/B39
Four-Band FDD-LTE	B1/B3/B7/B8
Four-Band TDD-LTE	B38/B39/B40/B41

WiFi	IEEE 802.11 b/g/n
GPS	Supported
Barcode Scanner	
1D Barcode Scanning	Supported
2D Barcode Scanning	Supported
QR Code Scanning	Supported
Contactless Smart Card Interface	
Standard	ISO-14443 A & B part 1-4, ISO-18092
Protocol	Mifare® Classic Protocols, T=CL, FeliCa
Smart Card Read /Write	Up to 424 kbps
Operating Distance	Up to 50 mm
Operating Frequency	13.56 MHz
SAM Card Interface	
Number of Slots	4 ID -000 slots
Card connect slot	Contact
Standard	ISO/IEC 7816 Class A, B (5V, 3V)
Protocol	T=0, T=1
Smart Card Read /Write	9,600-115,200 bps
Firmware Upgrade Interface	
Firmware Upgradeable	RS232
Built-in Peripherals	
LCD Display	160×80 dot-matrix LCD display with backlight, 4.3 inch
Speaker	Supported
Buzzer	Supported
LED Status Indicators	4LEDs for indicating status (from left most: blue, yellow, green, red)
Other Features	Real Time Clock
Working environment	Temperature: -20℃～60℃
	Humidity: 5%～93%(Non-condensing)
Storage environment	Temperature:－30℃～80℃
	Humidity: 5%～95%(non-condensing)
Physical Specifications	
Dimensions	227mm×140mm×99mm
Case Color	Black
Weight	880g
Certifications/Compliance	ISO-7816, ISO-14443, QPBOC L1, QPBOC L2, CE,

	FCC, RoHS, Contactless EMV L1/L2, IK08/EN50155, IP54

Applications

- Transportation
- Bus Validator
- Parking

Picture