



V900 series terminal family is a validator device for Closed Circuit & Electronic Payment and Fare Collection Systems. The terminal features a powerful Dual-Core processor, large memory, increased security (MQTT, SSL) and rich communication capabilities. 7-inch screen is supported as touch resistive or capacitive.

V900 is a fare collection validator that can meet the smart city requirements at the maximum level. The Internal GNSS/GPS receiver offers communication capabilities such as Ethernet/2G/3G/LTE/Wi-Fi/Bluetooth technologies. All process records are forwarded to the server online as they are backed up on the terminal. The process data is stored in memory with 16 GB SD & NV-RAM.

The validator can work with ISO14443 A/B contactless cards, rechargeable smart cards (MIFARE® 1K, Plus, DESFire) and disposable type contactless tickets (Ultralight). Terminal also supports next-gen payment technologies (QR Code, NFC, Bluetooth). With EMV Level-1 compatibility, V900 is a world-standard mass transit payment terminal.

V900 can be used on the vehicle or on the turnstile. Required input/output ports to control turnstile systems are available. Provides communication with Ethernet at fixed points and over 2G/3G/LTE GSM/GPRS in the vehicle. In-vehicle passenger information and announcement systems can be integrated directly into the V900.

Two types of terminals are produced as V900 and V900L for the V900 family. V900L is a lower cost terminal compared to V900.

Application Areas

- Closed-Circuit Electronic Payment & Fare Collection Systems
- QR Based Mobile Payment Systems
- Route/Distance Based Payment Systems
- Service Vehicles
- Factory & Machinery Automation & Job Tracking
- Smart Home & Building Automation
- Electric Charging Stations
- Vending & Kiosk Automats
- Access Control



KEY FEATURES

- 13.56 MHz ISO14443 A/B & MIFARE®/RFID Reader
- 7" Resistive/Capacitive Display
- Smart Vehicle-ID Chip
- 16GB microSD Memory & NV-RAM Memory & 128 MB SDRAM
- Ethernet and GPRS/2G/3G/LTE & Wi-Fi & Bluetooth Communication
- RS232/RS485 & Digital Input/Output
- USB 2.0 Host
- Beyazliste/Karaliste Uygulamaları
- Linux Operating System or RTOS (Only V900L)
- Source Code and Software Development Kit for System Integrators


TECHNICAL SPECIFICATIONS

| | V900 | V900L (V900 Lite) |
|----------------------------------|---|--|
| Operating Voltage | 7 - 60V DC | |
| Power Consumption | 10W | 6W |
| Environmental Conditions | -20 ... +75°C Operating Range -30 ... +85°C Storage Range | |
| Processor | Arm Cortex A8 Dual-Core 32-Bit 800 MHz | Arm Cortex M4/M0 Dual-Core 32-Bit 200 MHz |
| Operating System | Linux 3.20 Kernel | RTOS |
| Development Environment | Linux / Qt Framework | Windows |
| Memory | 256 MB SDRam 256 MB Flash 128 KB NV-SRAM / FRAM 8 GB microSD Industrial Type SDHC (x2) | 1 MB SRam 1 MB Flash 128 KB NV-SRAM / FRAM 8 GB microSD Industrial Type SDHC |
| Read/Write | ISO14443 A/B Compliant MIFARE 1K, MIFARE 4K, MIFARE Plus, MIFARE UltraLight, MIFARE UltraLight C, MIFARE DESFire, MIFARE DESFire EV1, MIFARE SmartMX, ISO 14443A tags, ISO 14443B tags | |
| Display | 7" TFT LCD Capacitive/Resistive Touchscreen Display | |
| Communication | Ethernet 10/100 BaseT, TCP/IP, UDP, HTTP, ICMP GSM/GPRS 2G/3G/LTE GSM/GPRS Modem IEEE 802.11 b/g/n Wi-Fi & Bluetooth BLE 4.2 | |
| Input/Output | RS232 Port RS485 Port USB 2.0 Host Digital Output (x2) Optically-Isolated Digital Input (x2) Vehicle Ignition Input CAN Bus* | |
| Additional Specifications | Offline Operation Mode Battery Backup Internal Real Time Clock (RTC) Real Sound Output (Built-in Amplifier and Loudspeaker) LED Indicators (x4) | |