CUBIC Transportation Systems

Intelligent Travel Made Real®

Features

- Accepts EMV open payments with contactless bankcards and mobile wallets, account based payments, agency-branded smartcards, virtualized smartcards and barcode tickets
- EMVCo L1 certified with L2 certifications for Visa, Mastercard, Amex and Discover
- Ultimate in EMV open payment security, plus PCI PTS ready and full P2PE capability
- Bright, full color LCD display with audible alerts for clear passenger and driver feedback
- Vehicle wired connectivity, with options for wireless 4G LTE, Wifi, Bluetooth Classic and Bluetooth Low Energy
- Powerful 1.6GHz ARM Cortex Quad-Core processor with 2GB DRAM, and 16GB of memory for faster payment
- Touchscreen option where passenger input is required

Cubic Validator 3.0

The Cubic Validator 3 collects passenger payments on board buses and trams. Contactless bankcards and mobile wallets are accepted, with barcode tickets and agency-branded smartcards. Any media or credential, physical or virtual, can be used for account-based travel. With Cubic Validator 3, transportation operators deploy new and secure open payment schemes rapidly, in the knowledge that existing ticketing and payment schemes can be supported.

Success with open payments means a guarantee of payment security and a proven path to brand certification. The validator is EMV L1 certified with EMV L2 certifications for Visa, Mastercard, Amex and Discover, and will support PCI PTS certification on request. When deployed with a PCI DSS certified payments module such as the Cubic Payment Application, the validator offers proven P2PE certified payments for the ultimate in transaction security.

Fast boarding times are essential for on-time arrival, increasing ridership and driving revenue. The validator's powerful processor guarantees rapid and accurate validation, and with clear signage, a large screen, and built-in speaker for audible feedback, each passenger is guided quickly through boarding and payment.

Our customers also require flexibility. Options include a large touchscreen display, barcode reader, cellular 4G LTE communications, WiFI and Bluetooth Classic and Low Energy. The validator is also available in a range of colors to reinforce our customers' branding.

Specifications

PHYSICAL	
Dimensions	230 x 175 mm (H x W); < 100mm depth to pole
Weight	1kg
Material	Polycarbonate, vinyl decal, glass
Voltage	8 - 36 VDC
Power Over Ethernet (PoE)	Yes
Power Conditioning	Supports vehicle power, graceful shutdown, low voltage protection
Average Power Dissipation	< 11 W peak, approx. 7 W average
Operating Temperature	-27°C to 65°C
Storage Temperature	-30°C to 80°C
Relative Humidity	10-97% non-condensing
Protection	IP54 & IK08
CAPACITY	
Processor	Quad core 1.6 GHz Cortex
RAM	2 GB
Storage	32GB with 16GB available at a time (A/B side)
Expansion Ports	2 x USB 2.0 (not available while pole mounted); Serial RS232/RS485 (software selectable); Micro SD card for additional memory capacity
SAM Slot	2 from TR4 Secure Board, 2 from Application Board
Operating System	Linux OS kernel version 5.4
USER INTERFACES	
Display	Full color, 5” LCD, 800 nits, anti-reflective/anti-glare, 640 × 480 resolution
Touchscreen	Option
Speaker	Yes
INTERFACE OPTIONS	
Wired Interfaces	Ethernet 1000 Mbit RJ45
WiFi	WiFi: IEEE 802.11 a/b/g/n
Bluetooth	Bluetooth®: 4.1, Classic and Low Energy
WAN	4G cellular: LTE and LTE/HSPA (Optional)
GPS	Multi-constellation GNSS with untethered 3D inertial dead reckoning
FARE MEDIA ACCEPTANCE	
Media NFC Support	MIFARE® DESFire EV1, EV2 MIFARE® Ultralight C MIFARE® Classic, Ultralight, Plus
Open Payment Security	EMVCo L1 Certified EMVCo L2 Certified for: Visa® Contactless Payment Specification (VCPS) MasterCard® M/Chip Discover® Network D-PAS
Barcode	Linear and 2D barcodes, including QR Code and Aztec Code

In the interests of product improvement Cubic reserves the right to change the above specification without notice.

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