

VAL100

Barcode/NFC & RFID Ticket Validator With Contactless Payment Capability



FLEXIBLE DESIGN

The VAL100 onboard validator is designed for use in a variety of public transportation automatic-fare collection systems. It combines a proven multimedia ticket reader with an open architecture Linux computer to create a mobile ticket validation solution when combined with third party software.

POWERFUL VALIDATION

The validator combines barcode and NFC/RFID reading functionality to provide a single point of presentation for tickets and travel passes – whether presented on a paper ticket, smartcard or mobile phone.

CONTACTLESS EMV PAYMENTS

The VAL100, when fitted with the TripTick ATR220, is available with EMV Level 2 certification, allowing for applications where contactless payments are required. It offers PCI and SRED compliance for contactless payments using VISA, MasterCard, AMEX, JCB and Discover payment schemes.

EASY CONNECTIONS, CLEAR DISPLAY

The VAL100 can be connected via RS232, Ethernet or it may be used wirelessly through a mobile network. The device features a bright, clear, 480 x 272 high resolution display with software adjustable illumination. An ambient light sensor is also fitted allowing for automated brightness adjustment.

APPLICATIONS

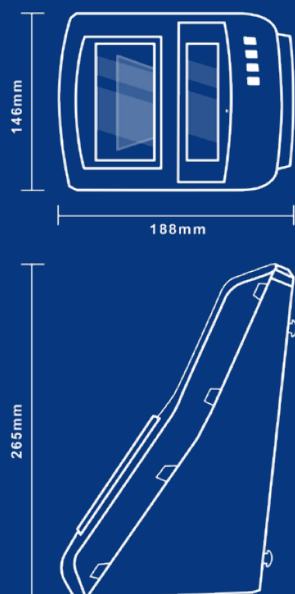
- Buses
- Trams & Light Rail
- Coaches
- Metro



FEATURES:

- **General Public Use** - Robust design for long-term frontline use
- **Intuitive** - Single point of presentation for barcodes, NFC/RFID tickets and contactless payments
- **User Feedback** - LED and audio feedback to enhance passenger experience
- **Easy Read** - Large, clear 480 x 272 TFT LCD color screen
- **Contactless Payments** - Integrated EMV L2 Payment Kernels with Level 2 Certification (VISA, MasterCard, AMEX, JCB, Discover)
- **Any Media** - Unique, optimized focal distance improves reading performance
- **Simple Installation** - Pole mount kit with quick release mechanism for easy access & option for platform installation available
- **Software Integration** - Linux computer with a variety of peripheral hardware for integration with a wide range of ticket validation software

VAL100



FEATURES

Connection Types

- USB
- Ethernet
- RS232
- Wi-Fi
- Cellular

Technology

- cEMV*
- NFC / RFID
- QR/Barcode

* Option

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VAL100

	READING CAPABILITIES
Barcode Symbolologies Read	Linear: EAN / UPC, Code 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Code 39, Code 128 2D: PDF417, Aztec, DataMatrix and QR codes Media types read: Smartphone/tablet/smartwatch displays & paper tickets
Contactless Reader	Supported media: ISO14443 type A and B cards (Java cards); max baud 424K (extendable to 848K) MIFARE Ultralight (UL-C, UL-EV1), MIFARE DESFire, MIFARE Plus, MIFARE Classic, MIFARE SmartMX Operating frequency: 13.56 MHz Operating distance: 40 mm
Contactless Payments	Integrated EMV L2 Payment Kernels with Level 2 Certification (VISA, MasterCard, AMEX, JCB, Discover) PCI SRED - V5.0
	ELECTRONIC
Power Supply	10.5-33 volts from vehicle supply - Input protected by automotive grade power conditioning circuitry
Communications & Host	Cellular: 3G/4G/GPRS (Options) Satellite: GPS Radio: Wi-Fi; Bluetooth® 4/Bluetooth Low Energy Wired: USB; RS232 or Ethernet Host: 1.0GHz ARM Cortex-A9 processor; 512-1024MB Ram; 32 or 128GB eMMC storage, Linux OS, full API and device access for developers LED indicators: 4 x RGB LEDs Sound: Speaker with digital control for audio playback
	PHYSICAL
Dimensions	6 x 7 x 10 in (145.5 x 188 x 265 mm)
Weight	2 lbs (1.7 kg)
Body	Black & grey ABS
Display	4.3", 480 x 272 pixel, widescreen, sunlight-readable
Glass	4mm Toughened White Soda Lime; BS EN60068-2-75 & IEC 62262:2002
	THERMAL (AIR)
Operating Temperature	-4°F to 122°F (-20°C to 50°C) at 0-90%, non-condensing
Storage Temperature	-40°F to 140°F (-40°C to 60°C) at 0-90%, non-condensing 140°F to 158°F (60°C to 70°C) at 0-50%, non-condensing
	APPROVALS
	Shock and Vibration: IEC 61373 Fire retardance: EN13501-1 EMC Approvals: FCC 47CFR Part 15 Class A EN55022: 2006 + Amd1: 2007; EN55024: 1998 + Amd1: 2001 + Amd2 2003 UL 60950-1 and CSA C22.2 No. 60950-1-07 IEC 60950-1 2nd edition IEC 60950-1 2nd edition including amendment 1 Safety: EN 60950-1: 2006; IEC 62471: 2006 - Exempt Class Ingress: IP54 MTBF: 50,000 hours



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