

# VAL100

## Barcode/NFC & RFID Ticket Validator With Contactless Payment Capability



### 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



### 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.

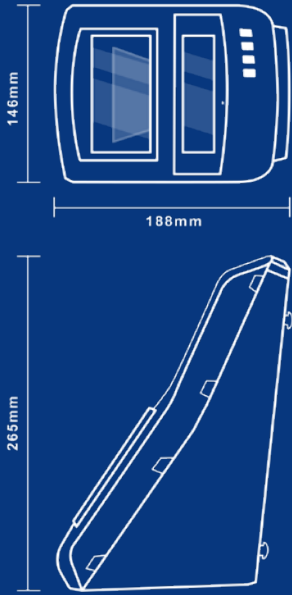
### EASY CONNECTIONS, CLEAR DISPLAY

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

# VAL100



## FEATURES

### Connection Types

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

### Technology

- cEMV\*
- NFC / RFID
- QR/Barcode

\* Option

## VAL100

READING CAPABILITIES	
<b>Barcode Symbologies Read</b>	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
<b>Contactless Reader</b>	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
<b>Contactless Payments</b>	Integrated EMV L2 Payment Kernels with Level 2 Certification (VISA, MasterCard, AMEX, JCB, Discover) PCI SRED - V5.0
ELECTRONIC	
<b>Power Supply</b>	10.5-33 volts from vehicle supply - Input protected by automotive grade power conditioning circuitry
<b>Communications &amp; Host</b>	Cellular: 3G/4G/GPRS (Options) Satellite: GPS Radio: Wi-Fi; Bluetooth 4/BLE 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	
<b>Dimensions</b>	6 x 7 x 10 in (145.5 x 188 x 265 mm)
<b>Weight</b>	2 lbs (1.7 kg)
<b>Body</b>	Black & grey ABS
<b>Display</b>	4.3", 480 x 272 pixel, widescreen, sunlight-readable
<b>Glass</b>	4mm Toughened White Soda Lime; BS EN60068-2-75 & IEC 62262:2002
THERMAL (AIR)	
<b>Temperature</b>	Operating -4°F to 122°F (-20°C to 50°C)
<b>Storage</b>	-40°F to 158°F (-40°C to 70°C)
<b>Humidity</b>	0-90% 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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