VAL050 On-board Validator
Barcode/NFC/RFID ticket validator

Fast, accurate, robust and reliable ticket reader for validating tickets and passes on any media

The VAL050 On-board 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 validator. Designed for straight forward and simple integration with third party software and an optional remote display the VAL050 provides a truly flexible solution for appliactions including ticket offices and vehicle fitment.

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.

There are 4 coloured (RGB) LEDs and a programmable speaker to confirm ticket reads.

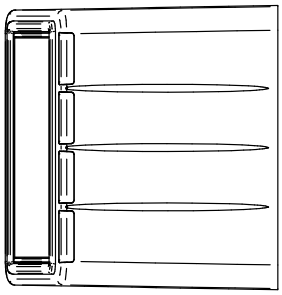
Features

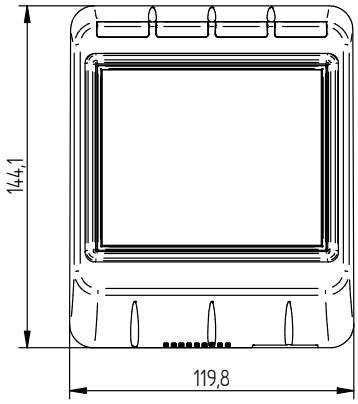
- Robust design for long-term front-line use
- Single point of presentation barcode/NFC/RFID reader
- Unique, optimised focal distance improves card and mobile phone reading performance
- LED's for effective user feedback

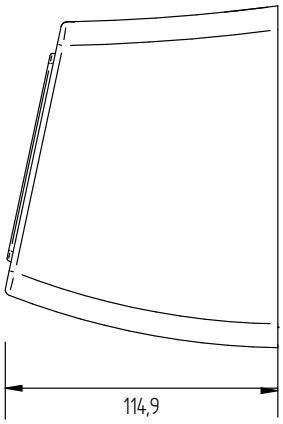
Applications

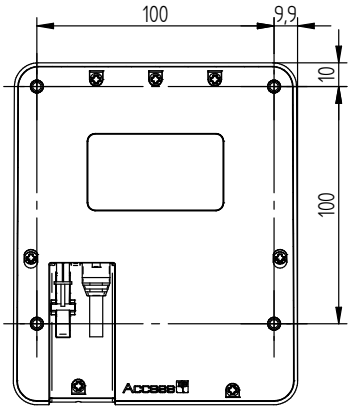
- Ticket Offices
- Buses
- Trams

Dimensions









Mechanical

External dimensions:

119.8W x 144.1H x 114.9D mm

Body: Grey PC/ABS

Glass: 4mm Toughened White Soda Lime; BS EN60068-2-75 & IEC 62262:2002

Power supply

9-36 volts from vehicle supply

Input protected by automotive grade power conditioning circuitry

Environmental

Temperature: Operating -20°C to +50°C; Storage -40°C to +70°C

Humidity: 5-90% humidity, non-condensing

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

Communications and host

Wired: Ethernet

Host: 1.0GHz ARM Cortex-A9 processor; 512-1024MB Ram; 32-128 GB 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

Reader – Barcodes

Reads following barcode symbologies:

Linear: EAN. UPC, Code 2 of 5,

Interleaved 2 of 5, IATA 2 of 5, Code 39, Code 128

2D: IATA resolution 792, PDF417, Aztec, DataMatrix and QR codes

Performance: Will read 2D barcodes from paper, mobile phones and tablets

Reader – Contactless NFC/RFID

Reads NFC-enabled mobile phones and contactless smart and banking cards.

EMV Level 1

NFC tags:

NFC type 1 tags

NFC type 2 tags (Mifare Classic)

NFC type 2 tags (Mifare Plus)

NFC type 3 tags (Felica)

NFC type 4 tags – ISO14443-4 Type A

NFC type 4 tags – ISO14443-4 Type B

 Ver: 1.1 February 2019

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