

Axio™ 4 BV

BUS VALIDATOR



OPEN PAYMENT TRANSACTIONS

HIGH SPEED CONNECTIVITY
ETHERNET, 4G, WIFI AND BLUETOOTH

ANDROID 8 PLATFORM



- Single validation area for barcode and contactless media
- Upgradable smart card reader to futureproof functionality and allow for system upgrades
- New IPS industrial colour display with ergonomic viewing screen and light sensor for automatic brightness adjustment
- New generation barcode reader with high speed processing
- Multiple communication interfaces for easy integration with on-board bus driver consoles and intelligent transport systems

FLOWBIRD
Transport Intelligence

www.flowbird.group

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BUS VALIDATOR

PRODUCT SHEET

General Design

The new design Bus Validator is based on the Flowbird platform Axio 4 and provides quick and reliable Open Payments capability. The device can be used to validate electronic tickets including contactless, plastic cards and mobile NFC via its PCI PTS payment smart card reader. The embedded barcode reader simplifies the process of reading barcode tickets presented on paper or on smartphones. The Bus Validator includes a number of high-speed connectivity options.

Core Features

- External dimensions – 267 x 150 x 74mm (H x W x D)
- Ethernet 100Mb/s
- 4GB eMMC high speed memory
- 2 SAM Socket ISO7816 t=0
- A speaker for tones or voice messages
- Auto configuration via 1-wire cradle memory
- USB2.0 port for maintenance
- Processor iMX6 Dual core/1GB RAM
- 5" touchscreen

Contactless Card Recognition

The reader is compatible to support ISO 14443 (A, B, B') and manages the following standards: Calypso, ITSO and 'Wayfarer' proprietary smart card and local schemes.

Optionally the smart card reader can be upgraded to be PCI PTS 4.x SRED + certified EMV L1 & L2 (Visa, MasterCard, CB).

Standards Supported:

- ENV 1545-1
- ENV 1545-2
- NFC IP 1 and NFC IP 2
- ISO 7816 – 1 to 3 : 1999
- ISO/CEI 14443

NFC standards supported – NFC: ISO 14443 A @ 106K minimum & ISO 14443 B @ 106K minimum in passive mode.

Accessibility

Display Characteristics – IPS Colour 5" high brightness TFT touchscreen

Customer Comfort – To ensure optimal visibility, a sensor regulates the backlight of the display depending on the external environment.

Easy Display Configuration – The display, colours, messages, action and dynamics of the transaction are configured via the back office, enabling operators to manage future code evolutions.

Multi-touch – Display is fitted with a new generation capacitive touchscreen allowing a seamless customer experience.

Audio Support – The validator is fitted with a speaker and an internal amplifier.

Visual Confirmation – Via TFT touchscreen and RGB LED bar on the top.

Accessibility – Display oriented to be viewable for disabled people.

Environmental

- Operating temperature range: -20°C to +55°C
- Storage temperature: -30°C to +70°C
- Casing: Plastic casing with steel metalwork
- Flammability: Class compliant with norm NF EN 60950 & EN45545
- IP54 (IEC60529)
- Vandalism Resistance: IK9 for all externally accessible parts

Compliance & CE Marking

The validator complies with the following applicable European Directives:

- Low voltage directive (2006/95/EC)
- EMC directive (2004/108/EC)
- RoHS directive (2002/95/EC)
- WEEE directive (2012/19/EU)
- EMC directive (2004/104/EC)
- IEC EN60950-1

Options

- PCI PTS Smartcard reader
- Barcode reader
- 4G modem
- WiFi (a-b-g-n) dual band
- GPS with internal or roof antenna
- Bluetooth V5
- GPS
- Wall mounting kit
- 4 SAM (2 Standard + 2 Optional)

*Some of the features described may be optional.
Due to continual product development, specifications are subject to change without notice.*

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