



# AXIO 4

## BUS VALIDATOR

**OPEN PAYMENT, CONTACTLESS  
TICKETING AND QR CODE**

**HIGH SPEED CONNECTIVITY  
ETHERNET, 4G, WIFI AND BLUETOOTH  
ANDROID 8 PLATFORM**

- Single validation area for barcode and contactless media
- Scalable payment reader and application that adapt to the latest security updates
- New ergonomic industrial IPS colour display with automatic backlight adjustment.
- New generation barcode reader with high speed processing
- Multiple communication interfaces for easy integration integration with intelligent transport systems and vehicle peripherals.

# AXIO 4 - BUS VALIDATOR

## MAIN FEATURES

### DESIGN OVERVIEW

The architecture of the new on-board validator is based on the Flowbird Axio 4 platform and offers a fast and reliable processing capacity for all media allowing travel on public transport using **closed loop smart cards, contactless bank cards, QR Codes and NFC media.**

The contactless reader is **PCI PTS and EMV Level 1 & Level 2 certified** for payment and meets international standards for traditional smart card readers.

**The integrated QR code reader** offers an intuitive user experience when reading barcodes displayed on paper or smartphone. The validator can be connected to the network **via Ethernet or optional via 4G modem or Wi-Fi.**

MAIN FEATURES	
BANK READER	PCI PTS 5.x and 4.x SRED certified EMV L1 & L2
TACTILE DISPLAY	5" landscape orientation
INDICATOR LIGHT	An RGB LED bar and EMV indicators
AUDIO	Speaker supporting tone validation or voice messages
CONNEXION	Ethernet, RS232, RS485, I/O, USB for maintenance
PROCESSOR	iMX6 Dual Core/1GB RAM
MEMORY	4 GB high-speed eMMC and micro SD card slot
TICKETING	ISO 14443 - CEN/TS 16794 2 SAM slots ISO 7816 t=0
CONFIGURATION	Automatic configuration via fully integrated Dallas memory
DIMENSIONS	267 x 150 x 74mm (HxWxD)
OPTIONS	
READER	2D barcode reader
COMMUNICATION	• 4G modem cat 4 • WiFi (a-b-g-n) dual band • Bluetooth V5
GEOLOCATION	GPS, Galileo, Glonass with built-in antenna and connector for external antenna
FIXING	Fixing kits for pole and wall
SAM SLOTS	x4 SAM slots (x2 standard + x2 optional)

### CONTACTLESS READER FEATURES

The integrated **PCI PTS 5.x and 4.x SRED payment reader is certified to Level 2 for Visa, MasterCard, Amex, Diners, Discover, Union Pay and Carte Bancaire.**

The reader is compatible with **ISO 14443 A, B, B' standards** and supports **Calypso, ITSO** and local **Mifare** ticketing schemes.

#### Supported standards :

- ENV 1545-1
- ENV 1545-2
- NFC IP 1 and NFC IP 2
- ISO 7816 - 1 à 3 : 1999
- ISO/CEI 14443 – CEN/TS 16794 – RCTIF 5.0

#### Supported NFC standards

- NFC: ISO 14443 A @ 106K minimum & ISO 14443 B @ 106K minimum in passive mode.

ACCESSIBILITY	
VISUAL CUSTOMER INTERFACE	<ul style="list-style-type: none"><li>• 5-inch high-brightness IPS touchscreen with ambient light sensor</li><li>• Unrestricted viewing angle for visibility in all conditions</li><li>• Next generation capacitive multi-touch screen</li><li>• RGB LED bar above the display to indicate validation result and validator status</li></ul>
AUDIO CUSTOMER INTERFACE	<ul style="list-style-type: none"><li>• A powerful speaker with software adjustable volume</li><li>• Tone output or playback of audio files</li></ul>
VALIDATION INTERFACES	Separate QR code and contactless validation target areas
ACCESSIBILITY	Regulation 1300/2014 (Rail)
ENVIRONMENT	
OPERATING TEMPERATURE	-25°C to +55°C
STORAGE TEMPERATURE	-30°C to +70°C
CONSTRUCTION	Grey robust plastic housing
FLAMMABILITY	UL94V0 & EN45545 (Rail)
PROTECTION LEVEL	IP54 IEC 60529
IMPACT RATING	IK10 IEC 62262
SAFETY	IEC 62368-1
REGULATORY COMPLIANCE	
EUROPEAN	<ul style="list-style-type: none"><li>• RED Directive 2014/53</li><li>• RoHS Directive 2011/65/EU</li><li>• Interoperability Directive 2016/797/EU</li><li>• WEEE Directive 2012/19/EU</li><li>• UN Regulation No. 10</li></ul>

