



Specifically designed for bus, tram, light rail and platform installations



## P 1 Validator

**New cutting-edge validator based on Ingenico Open/2500 reader as its core platform, aggregated with an easy-to-use display, bar code reader and sound unit.**

Unique design, compact, simple and robust.

Reader – Fare media support



**NFC**

P1 is a contactless NFC reader that is compliant with ISO 14443 A/B/B', ISO 15693, ISO 18092 (card / reader / peer to peer modes)

**Supported close-loop cards:**

- Mifare Classic, Ultralight, Plus, DESFire
- Calypso rev1, 2.4, 3.1 & 3.2 with contactless protocols A/B, B'
- Sony Felica,
- CTS512B, CTS256B, CTM512, SRT512, SRI512, ST25TB...

**EMVCo L1 & L2, PCI 5 SRED**

EMV Level 1 compliant / Level two by partners' validator integration  
 PCI PTS v5.1 SRED (on the field up to end 2032). PCI Certification PTS v5.1 online and offline

Accepts all contactless payment methods: Visa, MasterCard, American Express, ...

**Barcode Reader**

QR and barcode reader

**Android CPU motherboard**

An additional board allows the development team to use an open Android environment to develop the applications

Processor / RAM / Storage

Android board comes with: 4GB RAM, 16GB Flash

User interface

**Color Display**

Contactless landing zone  
 RVB backlit landing zone  
 6 x 4 green/red LEDs  
 5" LCD color display

**Audible alerts and feedback**

Buzzer Mono -Polyphonic sound (wav reader)

## Physical Characteristics

Operating system	Telium TETRA (Ingenico proprietary OS)
Expansion Slot - MicroSD	MicroSD up to 32GB
SAM interface	4 SAM ID-000 ISO 7816 (PPS & HSP Innovatron) Tested for vibration resistance Accessible without dismounting the reader High read/write speed on transportation card (250ms)
Operating Temperature	-20° to +70°C*
Storage Temperature	-20° to +70°C*
Operating humidity	95% non-condensing at +55°C*
Dimensions	336 * 138 * 107 mm

## Standards

Hardware hardening	EMC standards  For fixed & mobile (road & railways) equipment  IP rating: IP65  Anti-vandalism rating IK10
Communication interface	Ethernet Built-in 10/100 base-T Ethernet (RJ45)  Bluetooth BT 4.1 module (beacon mode)
Power Supply	External power supply 10W: 5V DC to 48V DC. Current : 2000 mA at 5V For automotive, range is : 12V DC to 24V DC

Personalization / Branding  
5 colour options

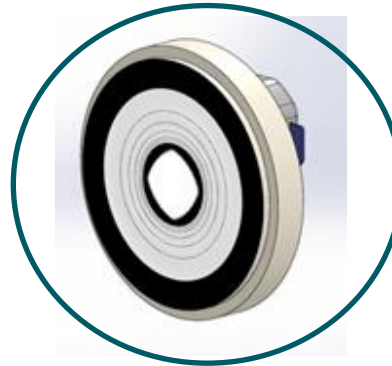


# 1 core – 2 form factors & use case

## OPEN/1500



## OPEN/2500



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