CityFlow®
PLG548

The reader of reference for contactless projects

The CityFlow is designed for the convergence of mass transit and payment applications. It is a ruggedized, EMV and transport/RCTIF compliant contactless reader.

This new reader is meant to deliver superior card processing capabilities to kiosks, vending machines or access control gates integrating both EMV and contactless transit cards.
## PRODUCT DESCRIPTION

- The new CityFlow is a fully packaged EMV certified contactless reader designed for both contactless payment and transit applications.

- Easy to integrate on a new or existing device, when surface mounted, the final equipment will benefit from the EMV contactless certification.

- It is highly ruggedized to withstand demanding outdoor environments.

- The CityFlow is suitable to various configurations as it can be mounted on all types of materials including metal.

- Optional additional memory extension to run third party software.

- Secure element allowing secret keys storage and equipment remote management.

## APPLICATIONS

- Public transport
- Identity
- Loyalty
- Points of sale
- Logical access control
- Physical access control
- Ticket machines
- ATM
- Tolls
- Banking

## PRODUCT SPECIFICATIONS

### RF Interface
- ISO14443 A/B/B', Felica®, Mifare®, High speed RF communication: 106 to 848 kb/s for ISO A/B, 212 to 424 kb/s for Felica®

### Power supply
- CityFlow PLG548-UE: USB bus powered (5 V, 500 mA)
- CityFlow PLG548-SE: 7-30 VDC (500 mA at 7 VDC)

### User interface
- 4 green LEDs, 1 buzzer

### Communication interface
- CityFlow PLG548-UE: USB Full speed: 12 Mb/s, CDC or CCID
- CityFlow PLG548-SE: RS232C serial: 115.2 kb/s (9.6 up to 691 kb/s)

### Operating system
- Windows, Linux, OS X, Android
- Serial emulation (VCP) for USB CDC or PC/SC for USB CCID

### Supported cards
- ISO14443 A/B/B'
- ISO 18092 (NFC)
- Mifare®, DESFire®, 2K, 4K, Plus, Ultra Light (& EV1, C), ProX, SmartMX
- Calypso Rev 1, Rev 2, Rev 3 (CD97, GTML, GTML2, CT2000, CD21, TanGO)
- CTS256B, CTS512B, CTMS512B, ST SR Family, THF1064, Atmel, Infineon, NXP, Sony Felica®, STM
- ICAO, Java Card®, ITSO

### SAM interface
- 4 SAM slots + 1 secure element NXP JCOP
- ISO7816 T=0, T=1, with PPS up to 1,2 Mb/s
- HSP Innovatron Protocol

### Memory
- 256 KB for internal firmware
- 2 MB Flash and 256 KB RAM for extension firmware

### Physical Characteristics

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>100 x 86 x 25 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>140 g</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25 to 70 °C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-30 to 85 °C</td>
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<tr>
<td>Relative humidity</td>
<td>90% non-condensing</td>
</tr>
</tbody>
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### Standards
- CE, FCC part 15, RoHS, WHQL
- RCTIF V4 Class A
- EMV Level 1 2.3
- IP65, 9k10
- CEN/TS 16/794-2015

The specifications are subject to change without notice. We reserve the right to discontinue any product without notice.