

# Mobility Credentials

## Smart hardware credentials

HID Global offers an end-to-end mobility solution delivering full support, personalization, tickets/passes and fulfillment services. The comprehensive offering of mobile transport credentials includes ISO standard smart cards, RFID paper tickets and key fobs.



HID **RFID Paper Tickets** provide cost-efficient security and service for single and multiple ride use. Additional physical security options encompass visible and invisible UV fibers, UV ink & micro-printing, hologram & guilloche features.

A **Key Fob** is an easy-to-carry reusable and rechargeable credential. Key fobs are customizable based on customer requirements by selecting a contactless chip to fit application, operating frequency, memory capacity, multi-application and security features.

Furthermore, key fobs are available in a variety of standard shapes and colors and can be printed or laser-engraved with a name, logo, serial

number or promotional message. Custom shapes or colors can be produced to further emphasize customer brand.

**Smart Card Tickets** offer a choice of materials ranging from low-cost PVC over composite to high-end polycarbonate materials for increased temperature resistance and durability. Blank white cards are available for post-production personalization using Direct to Card (DTC) printers or pre-printed with high-quality offset or silk-screen printing. Customizable features include optional holograms, micro-text, security inks, custom magnetic stripes, thermo-rewriteable areas and more.

As a leader in radio frequency identification (RFID) technology, customers trust HID engineering and manufacturing expertise to deliver the world's most advanced, reliable mobility hardware credentials. Proven processes and automated manufacturing ensure high quality, as well as efficient and cost-effective production.



### KEY BENEFITS:

- Flexible – Supporting all major RFID chipsets to enable Smart City applications
- Reliable – Constructed to withstand the rigors of daily use
- Multi-application – Capable of running different applications concurrently

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## KEY TECHNOLOGY HIGHLIGHTS:

- Personalized with variable data
- Single use / Multiple use
- Selection of single or multiple RFID chips
- Customized artwork design
- Custom form factors possible

## TYPICAL APPLICATION AREAS

Practical shapes assure end-user credentials are always at hand and can include a custom printed brand message:

- Transportation
- Loyalty
- Access Control



hidglobal.com

North America: +1 512 776 9000 | Toll Free: 1 800 237 7769

Europe, Middle East, Africa: +44 1440 714 850

Asia Pacific: +852 3160 9800 | Latin America: +52 (55) 9171-1108

**For more global phone numbers click here**

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2022-03-24-idt-ems-mobility-credentials-ds-en

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PLT-05195

|                               | Mobility Credentials                                                                                                                                                                                                                                                 |                                                                                                                                                                                          |                                                                                                                                    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|                               | ISO Card                                                                                                                                                                                                                                                             | Paper Ticket                                                                                                                                                                             | Keyfob                                                                                                                             |
| Frequency                     | LF/HF/UHF                                                                                                                                                                                                                                                            | LF/HF                                                                                                                                                                                    | LF/HF                                                                                                                              |
|                               | <b>ELECTRONIC</b>                                                                                                                                                                                                                                                    |                                                                                                                                                                                          |                                                                                                                                    |
| Operating Frequency           | 125 kHz, 13.56 MHz or 860 to 960 MHz                                                                                                                                                                                                                                 | 125 kHz / 13.56 MHz                                                                                                                                                                      | 125 kHz / 13.56 MHz                                                                                                                |
| Chip Type                     | KIAT, KIAT Light Calypso, CLAP, Cipurse, MIFARE families + others on request                                                                                                                                                                                         |                                                                                                                                                                                          |                                                                                                                                    |
| Memory                        | up to 64 KB depending on chip                                                                                                                                                                                                                                        |                                                                                                                                                                                          |                                                                                                                                    |
|                               | <b>PHYSICAL</b>                                                                                                                                                                                                                                                      |                                                                                                                                                                                          |                                                                                                                                    |
| Dimensions                    | 3.4 x 2.1 x 0.03 in (85.6 x 54 x 0.76 mm)                                                                                                                                                                                                                            | 3.3 x 2.1 in (85 mm x 54 mm) other size on request                                                                                                                                       | Tear Shape : 1.57 x 1.22 x 0.19 in (40 x 31 x 4.8 mm) other size on request                                                        |
| Housing Materials             | PVC (default, others on request)                                                                                                                                                                                                                                     | Paper                                                                                                                                                                                    | ABS, PC, PA6, Epoxy                                                                                                                |
| Colors                        | White (other colors, transparency, printing and physical security features on request)                                                                                                                                                                               | Printing on request                                                                                                                                                                      | Black, red, blue, green, yellow, gray, white, orange                                                                               |
|                               | <b>CHEMICAL AND MECHANICAL</b>                                                                                                                                                                                                                                       |                                                                                                                                                                                          |                                                                                                                                    |
| Water                         | IP68, 68° F (20° C), 3.3 ft (1 m) x 24 h                                                                                                                                                                                                                             |                                                                                                                                                                                          | IP67, 68° F (20° C), 3.3 ft (1 m) x 1 h                                                                                            |
| Withstands Exposure To        | Acetic acid water, artificial perspiration, carbonated sodium water, ethylene glycol, fuel B, salt mist, salt water, sugared water; humidity 95% at 122° F (50° C) 24 h                                                                                              |                                                                                                                                                                                          | Acetic acid water, artificial perspiration, carbonated sodium water, ethylene glycol, fuel B, salt mist, salt water, sugared water |
| Environmental Test Conditions | 68° F (20° C), 100h                                                                                                                                                                                                                                                  |                                                                                                                                                                                          | 68° F (20° C), 100h                                                                                                                |
| Force                         | Dynamic bending and torsion, 4 x 250 bends                                                                                                                                                                                                                           | Dynamic bending 4 x 250 bends, maximum deflection about the short and long card axis are hwa=20mm and hwb=10mm<br>Dynamic torsional 4 x 250 torsions, maximum angle of rotation is æ=15° |                                                                                                                                    |
| Drop Test                     | 6 ft (1.8 m), 10 x 10 cycles                                                                                                                                                                                                                                         |                                                                                                                                                                                          |                                                                                                                                    |
|                               | <b>THERMAL</b>                                                                                                                                                                                                                                                       |                                                                                                                                                                                          |                                                                                                                                    |
| Storage                       | PVC: -31° to +122° F (-35° to +50° C), Composite: -40° to +158° F (-40° to +70° C)                                                                                                                                                                                   | 32° to 104° F (0°C to 40°C)                                                                                                                                                              | -13° to +176° F (-25° to +80° C), 1000h                                                                                            |
| Operating                     | PVC: -31° to +122° F (-35° to +50° C), Composite: -40° to +158° F (-40° to +70° C)                                                                                                                                                                                   | -4° to +122° F (-20°C to 50°C)                                                                                                                                                           | -13° to +176° F (-25° to +80° C)                                                                                                   |
| Shock/Fatigue                 | -31° to +176° F (-35° to +80° C), 50 cycles, 5 min soaking time, 20 sec transition                                                                                                                                                                                   |                                                                                                                                                                                          | -31° to +176° F (-35° to +80° C), 100x 5 min. with 20 sec. transition                                                              |
|                               | <b>OTHER</b>                                                                                                                                                                                                                                                         |                                                                                                                                                                                          |                                                                                                                                    |
| Standards                     | Depending on chip: ISO 7810, ISO 7816, ISO15693, ISO14443, EPCC1G2, optional NFC                                                                                                                                                                                     | Depending on chip: ISO15693, ISO14443, optional NFC                                                                                                                                      |                                                                                                                                    |
| Optional Features             | Artwork; encoding; visual (pre-) personalization via inkjet, thermal printing or laser marking; magnetic stripe; thermo-rewritable area; signature panel and optical security features. Non-technology cards, or other contact, contactless or dual-interface chips. | Printing / encoding on request                                                                                                                                                           | Laser engraving or printing single or both sides on request                                                                        |
| Optional Materials            | PC, PETG or Composite (Note: Chemical, mechanical and thermal tolerances will vary versus standard PVC, listed above.)                                                                                                                                               |                                                                                                                                                                                          |                                                                                                                                    |
| Box Size                      | 2000 pcs.                                                                                                                                                                                                                                                            | 50, 100, 500, 1000, 5000 pcs.<br>Fan fold 1, 2, 3, 4 pcs.<br>Roll 5000 pcs.                                                                                                              | 100 to 1000 pcs.                                                                                                                   |
| Warranty                      | 1 year                                                                                                                                                                                                                                                               |                                                                                                                                                                                          |                                                                                                                                    |

For further information, contact [tagsales@hidglobal.com](mailto:tagsales@hidglobal.com)



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