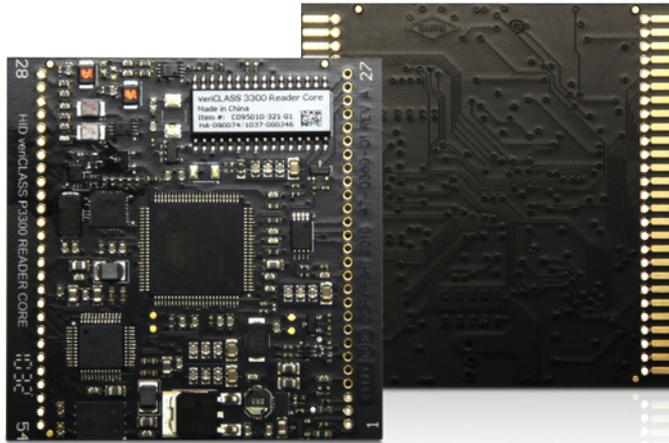


# Automatic Fare Collection



CASHLESS PAYMENT SOLUTIONS





## Your secure route to efficiency, reliability and revenue in public transport.



### **HID READER TECHNOLOGY: IT'S IN THERE!**

HID Multi-ISO reader technology is at work in handheld terminals, validators, mobile devices and ticket vending machines. Our versatile reader boards support multiple technologies and make every application more secure, affordable and fast.

Whether you operate a city bus line, a subway system or a train route, HID understands the challenges of implementing a public transport infrastructure. We know you must select from multiple features and complex technology platforms. You require proof of security, interoperability and reliable operation. You want the assurance of long-term value and revenue potential. And you need to be sure your passengers will find your AFC system fast and convenient.

HID Global is an industry leader in card solutions for secure ID and access control systems, supplying nearly 1.5 billion secure contactless cards and transponders, and millions of card readers around the world. We have applied decades of expertise in technology innovation and application to the public transport market. HID's multifaceted products for public transport – from the readers used in handheld devices, validators and ticket vending machines, to a wide array of contactless cards and versatile prelamines – are designed to work reliably together.

### **Delivering results.**

Every day, thousands of passengers depend on you for safe, efficient and reliable transportation. You demand the same high performance from your automatic fare collection system. HID Global has the proven ability to deliver – on time and on budget.

Our leadership in public transit provides valuable insights into the rapidly evolving technologies and market drivers that affect your world. It makes HID uniquely qualified to provide a complete portfolio of contactless automatic fare collection cards and ticketing media and readers. We've also earned the respect of system integrators around the world. HID offers all the secure contactless readers and smart card services that system integrators need to develop forward-looking public transport solutions, all the while ensuring optimized card-to-reader performance.

### **Providing card convergence solutions.**

By combining corporate or campus access, payment, loyalty, ticketing and parking applications on one convenient contactless card, we can extend your cards' usage and value – while helping to increase your profitability and ridership.

HID Global delivers sheet layouts according to card manufacturers' specifications and offers extensive technical support services, including custom antenna design. We design prelamines to integrate with contactless cards and non-card form factors alike.

### **Interoperability is an operating principle.**

HID adheres closely to international standards that help ensure the interoperability of

multiple public transport systems. We can integrate nearly any number of card applications and system requirements, and uniquely offer a way into the world of HID iCLASS® technology. By offering card printers and readers for system integrators and terminal manufacturers, HID has a breadth of hardware solutions in addition to technology expertise that integrators and operators can rely upon.

**Leading with card technologies.**

HID works with operators and the mass transit industry, identifying the most efficient and reliable card technologies to reduce maintenance and ownership costs and increase ridership. Our complete portfolio of contactless automatic fare collection cards and ticketing media includes MIFARE™ and DESFire™ card technologies as well as many other ISO 14443-compliant solutions. HID is also your partner when it comes to understanding FeliCa™, Calypso and ITSO. With this portfolio HID is able to address all needs of system integrators and public transport operators by offering smart, low-cost solutions for single trips or limited travel, as well as highly secure long-term solutions, minimizing opportunities for fraud. iCLASS concludes the offering as a highly recognized access control technology that is used in converged card solutions that include access and transportation.

**Speed reading for uninterrupted service.**

From standard modules to custom boards that are designed to be incorporated into

**Keyfobs & Customized Form Factors**

HID offers a wide variety of keyfobs and customized form factors to meet specific public transport system requirements.



**Reader Boards**

Convenient and cost-efficient solutions for system integrators and terminal manufacturers looking for secure and scalable options. Ideal for ticket vending machines, validators, mobile solutions and other automatic fare collection devices.



operators' systems, HID supplies readers that offer exceptional transaction speeds. They support the most popular contactless card technologies, including MIFARE, DESFire and iCLASS to provide the highest levels of interoperability. HID also supplies mobile terminal manufacturers with reader technology, ultimately enabling system operators to address queue fluctuation or en route collection.

**Make your mark: customization options.**

For on-the-spot issuance or remote transit card production, HID offers FARGO® card printer/encoders. The printers have a solid reputation for quality images and reliable operation in the most demanding environments. The HDP5000 features reverse transfer printing for card durability and chip protection. The direct-to-card line offers re-writable and thin-card printing in addition to encoding and dual-sided printing, giving operators the flexibility to personalize fare cards according to program needs.

For high volume card production, we'll help you create cards that are distinctive, personalized – and highly secure. Our selection of card materials and customization features includes custom form factors built to your specifications, such as keyfobs and stickers.

Our card personalization services can include visual security features such as microtext, embedded holograms, UV inks and guilloche designs to effectively deter counterfeiters.

**Smart Cards & Tickets**

Contactless cards and tickets are available with a range of technologies and various optional features.



**FARGO® HDP5000 Printer/Encoder**

The highly regarded choice for on-the-spot issuance and high-volume production of durable transit cards, debit cards and converged application cards, with superior image quality and trouble-free use.



**Worldwide Support**

HID's corporate offices are located in Irvine, California. Operations serving the Americas are also based in Irvine, with regional headquarters in Haverhill, England (Europe) and Hong Kong (Asia Pacific). The company maintains regional offices throughout the world, including Walluf, Germany and Granges, Switzerland, for localized assistance.



**Global Manufacturing and Service**

With global manufacturing sites and a worldwide sales and support network, HID Global is always close to its customers. In addition to card and reader hardware, we offer certification support as well as independent consultancy on the optimum combination of cards and readers, market trends and emerging technologies.

**Committed Industry Leadership**

HID Global is an engaged member of a variety of industry and trade associations. Our active role ensures that HID contactless products are open, interoperable, and perform to industry standards. We are equally committed to advancing our understanding of integrator, partner, and end-customer needs while staying ahead of industry trends.



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## **ASSA ABLOY**

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