



identiCLASS™ Developer Tool Kit

ADAPTIVE, GLOBALLY CERTIFIED, FLEXIBLE, e-ID READER BOARDS AND MODULES

- **Faster-to-Market** – global certifications reduce design, implementation and testing phases, accelerate development cycles, and shorten time to revenue
- **Adaptive** – open platform covers all relevant protocols and operating systems, and addresses virtually every organizational need
- **Scalable** – complete embedded platform offering a flexible interface to all contactless and contact credentials

identiCLASS™ Highlights:

- Small footprint reader core optimized for mobile solutions
- Standard reader board with integrated antenna and SAM socket
- Enhanced reader board supporting external antennas with extended cable distances
- Low power consumption with additional sleep functions, ideal for battery operated applications
- External antenna support through standard boards
- Onboard SAM socket and optional external SAM socket support
- Full ICAO compliance with standard HID design-in ready antennas
- A technically detailed, comprehensive developer tool kit, enabling straightforward integration
- CE and modular FCC approvals to accelerate certification processes for EU and US markets
- Simple, straightforward integration into existing or newly designed HID e-government products

The HID Global identiCLASS™ reader platform was developed specifically to offer OEM partners; system integrators; federal, state, and local governments; manufacturers of e-ID authentication systems and state security printers the ultimate flexibility to design-in turnkey solutions for e-ID markets.

The identiCLASS line enables e-government integrators to drastically reduce development cost and time. Modules are ready to integrate quickly and easily into virtually any smart card reader application, while global certifications streamline the compliance review process.

The adaptive identiCLASS design enables manufacturers to easily create secure, reliable finished reader solutions, with the ability to integrate multiple interfaces around a cluster of applications.

identiCLASS reader boards offer scalable integration of contact and contactless high frequency technologies, including full SAM support, USB interface, compliance with ISO14443A/B, ISO15693 and ICAO e-passport standards.

HID's identiCLASS platform offers three reader modules:

- **3300 Reader Core** – ideal for hand-held terminals and other space critical applications
- **3500 Reader Board** – ideal for desktop terminals or kiosks where multiple antennas are required
- **3700 Enhanced Reader Board** – ideal for applications requiring multiple antennas connected with extended cable lengths such as printers/encoders and kiosks

The state-of-the-art identiCLASS developer tool kit allows hand-held, kiosk and terminal manufacturers and integrators to accelerate their solution design, development and implementation. Complete documentation and simple training instructions yield faster product integration. Universally adaptable technology and minimal upgrade requirements assure the long-term viability of solutions, protecting the investment.

SPECIFICATIONS



identiCLASS™ Reader Core



identiCLASS™ Reader Board



identiCLASS™ Enhanced Reader Board

Base Part Numbers	DG3300A00	DG3500A00	DG3700A00
Dimensions	1.6" x 1.6" x 0.34" / 40 mm x 40 mm x 8.6 mm	3.4" x 2.8" x 0.36" / 86 mm x 71 mm x 9.1 mm	2.4" x 1.6" x 0.39" / 60 mm x 40 mm x 9.8 mm
Weight	0.42 oz / 12 g	1.09 oz / 31 g	0.63 oz / 18 g
Operating Temperature	-4° to 158° F / -20° to 70° C		
Storage Temperature	-40° to 185° F / -40° to 85° C		
Operating Humidity	10 - 90% Non Condensing		
Power Supply	USB Bus powered (5 VDC +/- 10% regulated)		
Current Requirements	220 mA (typical)	300 mA (typical)	180 mA (typical)
HOST INTERFACE			
Communication Interface	USB 2.0 CCID ¹ (via USB mini type B)		
Transmission Speed	12 Mbps (USB 2.0 full speed)		
CONTACT SMART CARD INTERFACE			
Standards	ISO 7816		
Protocols	T=0, T=1, 2-wire: SLE 4432/42 (S=10), 3-wire: SLE 4418/28 (S=9), I2C (S=8)		
Card Size	ID-000 or ID-1 (Optional external socket)	ID-000 (Integrated socket)	ID-000 or ID-1 (Optional external socket)
Supported Card Types	5 V, 3 V and 1.8 V Smart Cards, ISO 7816 Class A, B and C		
Power to Smart Card	60 mA		
Smart Card Detection	Movement detection with auto power-off / Automatic detection of smart card type / Short circuit and thermal protection		
CONTACTLESS SMART CARD INTERFACE			
RF Transmit Frequency	13.56 MHz		
Supported Standards	ISO14443A/B, ISO15693, ISO 18000-3		
Protocols	ISO 14443 A/B with 848 Kbps transmission rate (depending on IC and OS)		
Supported Tag-IC's	NXP: MIFARE®, DESFire®, SMART-MX and ICODE; Texas Instruments: TagIT®, ST Micro: x-ident, SR 176, SR 1X 4K		
Antenna Support	1 x External antenna connection (on 10cm cables)	Integrated and/or up to 2 x external antennas (on 10cm cables)	Up to 2 x External antenna connection (on 1m long cables)
GENERAL FEATURES			
PC/SC Driver Support	Windows® 2000 (32bit), 2003 Server ³ , 2008 Server ³ , Windows® CE 5.0 / CE.NET / CE 6.0 (depending on hardware), Windows® XP (32 / 64bit), Windows® Vista (32bit / 64bit), Windows 7 (32bit/64bit), Linux®		
Compliance/Certification	ISO 14443A/B, ISO 7816, Microsoft® WHQL2, USB 2.0 (USB 1.1 compatible), CCID ¹ (contact interface only)		
Approvals/Environmental	CE, FCC 47 Part 15 modular approval, ICAO, ISO 7816 Part 3, RoHS, WEEE		

1 = Chip Card Interface Device,
2 = Windows® Hardware Quality Lab
3 = Windows 2003/2008 Server drivers currently are not digitally signed