ACGPass e-ID Desktop Reader

RDHS-0404D1-01

The ACGPass e-ID Desktop Reader is a combined contact and contact less proximity read/write device that, with its interoperability capability, supports the broadest portfolio of ISO14443A and ISO14443B RFID-enabled documents even in mixed card populations. The module has a built in antenna. By using the USB 2.0 interface and the PC/SC driver the device can be connected to a PC easily. An integrated SAM socket enables a state of the art security level. This RFID read/write unit is optimized for maximum data throughput rates on the air, the contact as well as the PC interface. The built in boot-loader enables firmware field upgrades.

Typical Applications

- e-Passport
- e-National ID Cards
- e-Drivers Licenses
- e-Government

- e-Health Cards
- e-Document Authentication
- e-Document Issuing
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Technical Data Contactless Interface

Part Number	RDHS-0404D1-01		
RF Transmit Frequency	13.56MHz		
Supported Standards	ISO14443A, ISO14443B		
Supported Tag-ICs	MIFARE® Standard MIFARE® 4k MIFARE® Pro MIFARE® Ultralight MIFARE® DESFIRE MIFARE® SmartMX	SLE 55Rxx SLE 66CL160S SLE 66CLX32xP SLE 66CLX64xP SLE 66CLxxP SR176 SRIX4K ST19WR66	Jewel Tag Sharp B ASK GTML2ISO TOSMART P032 TOSMART P064 ISO 14443 A Tags ISO 14443 B Tags
Tested Operating Systems	TCOS (T-Systems) Apollo (SC²) SetCOS (Setec) iTOP (Trusted Logic) GemBorder (Gem+) JCOP (IBM)	STARCOS (G&D) MT-COS (Mask Tech) Proprietary (IRIS) Proprietary (Axalto) Proprietary (Oberthur)	Proprietary (OTI) Proprietary (ASK) Proprietary (CBN) Proprietary (Toshiba) Proprietary (Sharp) Proprietary (STM)
Host Communication	Point-to-Point		
Communications Interface	USB 2.0		

Technical Data Contactless Interface

Part Number	RDHS-0404D1-01
Communications Protocol	Specific ASCII or Binary Protocol
Communications Parameter	9600 Bit/s to 460 kBit/s, 8,N, 1
Firmware Boot-Loader	Supported Via USB Interface
S/W Driver	Virtual COM port Driver, DLL (VC++), PC/SC Driver for MS Windows 2000/XP
Power Supply	Via USB Interface
Current Consumption	Approx. 200 mA < 1mA at power down mode
Reading distance	Up to 95 mm, depending on tag and antenna
RF Transmission Speed	Up to 848 kBit/s
Antenna	Integrated
Input/Output Connector	Read indicator LED, 1 I/O Port, SAM Socket
Size	(LxWxH) 205.0x130.0x93.0mm ± 1.0mm / 7.87x5.12x3.66 Inch ±0,04 Inch
Weight	200 g ± 10% / 0.44 lb ± 10%
MTBF	200.000h
Approvals/Compliances	ETS 300-330, CE, FCC part 15, RoHS compliant

Technical Data Contact Interface

Part Number				
Supported Standards	ISO 7816 (8-Pin support)			
Supported Protocols	T = 0, T = 1			
Supported Tag-ICs	SLE 4432/42 (s=10)	SLE4418/28 (s=9)	SLE4404	I²C (s=8)
Card size	ID 1 format			
Communication speed	Up to 420 kbps when supported by card			
Supported clock frequency	Up to 8 MHz			
Power Supply	Via USB Interface			
Supported voltage ranges	Smart Cards with 1.8 V, 3.0 V and 5.0 V, ISO 7816 Type A,B and C			
Card power supply	60 mA (Short-circuit and overheat protected)			
Compliances	Microsoft WHQL certified, USB 2.0 (1.1 compliant), RoHS compliant, CE, FCC part 15			
API	PC/SC Driver, CT-API, OCF			
PC/SC Driver support	Windows™ 98, ME, Windows™ 2000, XP, Windows™ CE 5.0 (depending on H/W) / CE.NET, Linux™, MAC™ OS X, Windows® 2003 Server, Windows XP 64bit (IA64 and AMD64)			
Operating Temperature	10 – 55°C, 32 – 131 °F			
Operating Humidity	10 – 90 % rH			
Durability	100.000 Insertions			
MTBF	500.000 h			

For more information, please contact the sales office nearest you or visit our website: www.acg.de/RFID

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Subject to technical modifications 03/06