



**IDENTIVE**

# CLOUD 4710 F

Secure Contactless Desktop Reader



- **User Convenience**  
Modern housing design optimized for easy and ergonomic operation
- **Convergence**  
Featuring SAM protection, contactless and NFC technologies for use with mixed credential populations
- **Interoperable**  
Supports major card ICs, standards and technologies in just one device
- **Fast**  
Transaction time optimized with support of 848kBit/s in ISO/IEC 14443 and 600kBit/s in ISO/IEC 7816 for maximum end user acceptance

## Typical Applications

The CLOUD 4710 F is the ideal combination of contactless and NFC technologies protected by an optional SAM in just one single device.

Supporting ISO/IEC 7816 Secure Access Modules, 13.56 MHz contactless technology and NFC this PC-linked dual interface reader is featuring end user environments where virtually all kinds of credentials are being used, even in mixed populations.

With its all in one concept the CLOUD 4710 F enables a smooth transition from well-established traditional technologies into the emerging NFC applications pushing new business.

It represents the perfect mix between modern, stylish design and ergonomic use of any credential form factor like ID-1 cards, tokens or NFC enabled smart phones.

With its protected SAM socket the CLOUD 4710 F conveniently adds security to most contactless use applications.

The end user experiences convenience, transaction time efficiency, security, flexibility and full NFC capability for use applications such as network log-on, secure web based transactions or even NFC based customer loyalty programs.



## Optional Accessory:

### CLOUD 4710 F with an optional Stand Holder

- User Convenience – even more end user friendly reader presentation
- Flexibility – Best reader positioning and orientation for mounting situation and ease of use
- Fitting ready - Desktop mounting option, including wall mount (CLOUD 4710 F only)
- Reader can be ordered with pre-assembled stand holder





# CLOUD 4710 F

## Secure Contactless Desktop Reader

Parameter	CLOUD 4710F	CLOUD 4710F with Stand Holder
<b>Host Interface</b>		
Type	USB 2.0 CCID (USB 1.1 / 3.0 compliant)	
Communication Speed	12 Mbps (USB2.0 full speed)	
<b>Smart Card Interface</b>		
Supported standards	ISO/IEC 7816 Part 1 to 4	
Supported Tag ICs	All major ISO/IEC 7816 compliant Smart Card IC support	
Protocols	T=0, T=1	
Interface speed	up to 600 kBit/s (depending on card); TA1=97	
Clock frequency	ISO/IEC 7816 compliant up to 5 MHz, Operates up to 16 MHz	
Supported smart card types	5V, 3V and 1.8V, ISO/IEC 7816 Class A/B/C	
Power to smart card	60mA in Class A; 55mA in Class B; 35mA in Class C	
Smart card detection	Card present switch / Automatic power on/off / Short Circuit protection	
Card size	ID000	
Contact type	<ul style="list-style-type: none"> <li>• 8-pin ID000 Socket</li> <li>• C4/C8 support</li> <li>• Socket lock function</li> <li>• SAM detect switch</li> </ul>	
<b>Contactless Interface</b>		
Supported standards	ISO/IEC 14443 A&B Part 1-4, ISO/IEC 18092 / ECMA-340 (NFCIP-1)	
Protocols	T=CL, MIFARE™	
Supported card chips	MIFARE™ (Classic, Ultralight, Ultralight C, MIFARE PLUS, DESFire, DESFire EV1 2/4/8k), FeliCa™, Calypso, CD21, NFC Forum Tag Types 1/2/3/4	
Data transfer rate	106/212/424/848 kbit/s depending on card IC	
Reading distance	Up to 70 mm / 2,756 Inch depending on card chip type and card antenna size	
Antenna	Integrated	
<b>Driver &amp; Software</b>		
PC/SC driver	PC/SC Specification Ver. 2.01.09 for <ul style="list-style-type: none"> <li>• Windows® XP/Vista/7/8 (32&amp;64Bit) / Windows® Server 2003/2008/2012 / Windows® CE 6.0, 7.0</li> <li>• MacOS 10.5.x, 10.6.x, 10.7.x, 10.8.x</li> <li>• Linux 2.4.x, 2.6.x (32&amp;64Bit)</li> </ul>	
Software	<ul style="list-style-type: none"> <li>• PC/SC API</li> <li>• CT-API (through wrapper on top of PC/SC)</li> <li>• Synchronous-API (through wrapper on top of PC/SC)</li> </ul>	
<b>Operating Conditions</b>		
Power supply	USB Bus powered	
Power consumption	< 120 mA, excluding SAM; < 185 mA, with SAM; < 500 µA in Standby Mode	
Dimension	113x93x21mm / 4.449x3.661x0.827 Inch	100x93x92mm / 3.937x3.661x3.622 Inch
Weight	105 g ± 5% / 0.23 lb ± 5%	167 g ± 5% / 0.37 lb ± 5%
Operating temperature range	0° to +50°C / +32 to +122 F	
Storage temperature range	-20 to +60°C / -4 to +140 F	
Operating humidity range	Up to 95% RH non condensing	
Durability	Sliding Contacts 100.000 Card Insertions	
MTBF	100.000 hours	
Connector	1.5m USB Cable with USB Type A Connector	
Status indicator	LED	
Firmware in-field upgradeable	Yes	
<b>Certifications / Compliances</b>		
Systems / Standards	ISO/IEC 7816, USB 2.0 Full Speed, CCID, Microsoft® WHQL	
Regulatory / Environmental	CE, FCC, UL94, RoHS2, REACH	
<b>Order Information</b>		
Product Part Number	905324	905324-1914

Technical data are subject to change without notice.

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