



NIAP PP PSS 4.0
COMPLIANT
COMMON CRITERIA

SECURE MULTI-DOMAIN SMART CARD READER

Use a single smart card to login to multiple computers simultaneously with the innovative Multi-Domain Smart Card Reader.

User authentication devices are an essential security function in many organizations. Unauthorized access to the organization's information system is a serious threat. As many organizations are forced to isolate their classified and non-classified networks to prevent data leakages, users are forced to authenticate on multiple computers. In many high security organizations the user may need to access four different computers simultaneously at their desktop to handle daily tasks.

HSL developed the Secure Multi-Domain Smart Card Reader (MDR) technology to provide a simple and yet secure solution to this common problem.

HSL's MDR is available in 2 or 4 port computer interfaces via USB cables and enables a single user smart-card to securely and simultaneously authenticate on all of the 2/4 isolated computers.

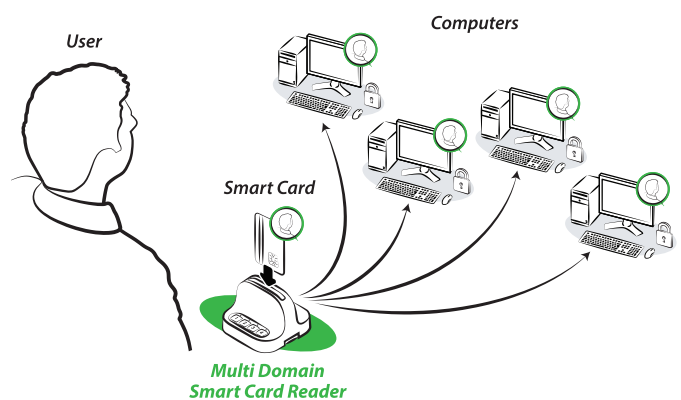
The user places their smart card into the card reader to authenticate as needed and leaves the card in the reader. Once the card is pulled out all authentication sessions are immediately disconnected.

The MDR is fully isolated internally to prevent any potential data leakages between the coupled computers through the reader. It is also equipped with an active anti-tampering system to prevent physical tampering.

MDR HIGHLIGHTS

- **First and only**
The only smart card reader available today that can interface with multiple isolated computers. Based on unique technology and patents.
- **Compatibility**
The MDR design relies on Identive (formally SCM) readers. It is by far the industry's most popular and compatible smart card reader. The product is supported by most operating systems in use today.
- **All firmware is in ROM (Read Only Memory).**
- **Cost effective**
This product was designed to provide an affordable solution for agencies and organizations. Product cost is easily justified once compared with issuing and maintaining multiple cards for each user.
- **Ease of use**
The MDR automatically switches between channels. The user needs only minimal training on the device's operation.
- **Active anti tampering**
Always-on active anti-tampering with 10 years battery life.

- **Tamper Evident Label**
Special holographic tamper-evident labels provide clear visual indication that the product was tampered with or opened.
- **Highest security by design**
The only smart card reader designed from its early stages to support high security isolation applications.



HSL's Secure MDR System Diagram



SECURITY FEATURES

- No shared circuitry across channels other than the user card. Each channel uses its own card reader circuitry
- Power sub-system is divided and fully protected from power signaling attacks
- Secure card removal messaging function with backup circuitry
- Audible warning if card is inserted and no active session available for more than 60 seconds
- Audible warning if card is partially inserted for more than 15 seconds
- Audible and visible indications if device was tampered with
- Advanced active anti-tampering system with back-up battery to detect physical intrusion attempts
- Permanently disables the device if tampering is detected; erases keys and log events in crypto memory
- Holographic tamper-evident labels to detect enclosure tampering
- Sealed plastic design to prevent physical tampering



SPECIFICATION

PART NUMBER	RS20N-4	RS40N-4
No. of Computers	2	4
MDR FEATURES		
MDR Ports	<ul style="list-style-type: none"> • 2 x USB Type-A to connect to computers, 1m long cable for each • 1 x DC power supply jack 	<ul style="list-style-type: none"> • 4 x USB Type-A to connect to computers, 1m long cable for each • 1 x DC power supply jack
Controls and indications	<ul style="list-style-type: none"> • 2 x blue LEDs to indicate active channel • 2 x red LEDs to indicate tampering attempt or failure to read card • Sound transducer to provide user warnings (65dB maximum) 	<ul style="list-style-type: none"> • 4 x blue LEDs to indicate active channel • 4 x red LEDs to indicate tampering attempt or failure to read card • Sound transducer to provide user warnings (65dB maximum)
Smart Card Reader Characteristics	<ul style="list-style-type: none"> • Supports ISO7816 Class A and AB Smart cards • T=1, T=0 protocol support • Communication speed up to 344,105 bps (PPS, FI parameter) • Frequency up to 12 MHz (PPS, DI parameter) • Connector with 8 sliding contacts designed for 150,000 insertions 	
Driver and OS Compatibility	<ul style="list-style-type: none"> • CCID compliant & PC/SC Compatible Reader • Supports All Operating Systems: Windows® OS, XP version and above, Linux, Mac OS 	
Computer Ports	USB Type B ports	
PHYSICAL		
Dimensions	80 (W) x 80 (D) x 60 (H) mm / 3.1 (W) x 3.1 (D) x 2.4 (H) inch	
Weight	0.3 Kg (1.1 lbs.)	
POWER REQUIREMENTS		
Power	Wall-mounted power supply 12VDC, 5W maximum	
Power Type	External	
ENVIRONMENTAL		
Operating Temperature	- 0°C to 40°C (32°F to 104°F)	
Storage Temperature	-20°C to 60°C (-4°F to 140°F)	
Humidity	Operating: 20% to 80% non-condensing; Storage: 10% to 90% non-condensing	
Altitude	0 to 10,000 ft	
CERTIFICATION		
Security Accreditation	CE, UL and cUL, Safety BSEN60950 / EN60950	
GENERAL INFO		
Made In	USA	
Product life-cycle	10 years	
Warranty	2 Years	