# SMART Network Interface Card

## Feature Summary

- MULTIPLE FORM FACTORS
  The SMART Network Interface Card offers multiple form factors:
  - Standard PCIe card
  - 7.5 X 4.25 X 1.125" for desktop or machine mountable application
  - 1U for rack mount
- MULTI PROTOCOL
  - Supports UDP
  - Others available
- PAYLOAD LEVEL INSPECTION
  - Assures only validated messages
  - Non-validated messages dropped or passed for forensic analysis
  - Customizable Data Parsing Engine
- TRAFFIC ENCRYPTION
  - Supports AES 256
  - Others Available
- TRAFFIC ENCAPSULATION
  - Supports IPSec ESP protocol
- THROUGHPUT
  - 1 Gbps Ethernet
  - 50 Microsecond Latency
- ADDITIONAL SPECIFICATIONS
  - WAN: Ethernet (10/100/1000)
  - LAN: Ethernet (10/100/1000)
  - CANBus/J1939/MIL-STD-1553
  - Power: 12vdc/3A
  - IP:IPv4/IPv6

## PRIORITIZE AND PROTECT YOUR MOST CRITICAL DATA & ASSETS

In an era when zero-trust levels of cybersecurity are becoming an absolute necessity to protect vital corporate information and systems, many companies are struggling to stay one step ahead of well-organized and funded cyber assailants intent on disrupting their business operations, stealing their intellectual property, or holding them for ransom. Conventional means of protection such as firewalls and intrusion detection systems are not robust enough by themselves, as witnessed by the ever increasing levels of highly visible attacks.

Affirmed Cyber Incorporated offers a patented "Smart Network Interface Card" that acts as an intelligent bridge to the internet from a corporate LAN. It allows corporations to verify that only legitimate and allowed data such as documents and network traffic to flow through the device; all other data is either dropped or passed to a third party SIEM for forensic analysis. This allows companies to create a "network within the internet" that allows two or more devices to interoperate while allowing them to be completely isolated from the rest of the internet, effectively creating a "virtual air gap" around this Virtual Isolated Network, precluding malicious intrusions. Computers or devices can be anywhere in the world connected to any network so long as there is a wired Ethernet connection to the Internet. This is an ideal solution when there is a need to transmit secure data such as PHI in the life sciences industry, intellectual property across industries, and any type of proprietary information that needs to be kept absolutely safe from intrusion. This means that even in the event that a cyber assailant gets through a firewall, around an intrusion detection system, and gets missed by an anti-virus program (which is virtually guaranteed to happen if the malware is a "zero-day" event), your system, assets, or precious information will be safeguarded at a byte level by the Smart Network Interface Card. Since the device establishes a "hardware base of trust", in which the defense perimeter shrinks down to the chip level, intruders will be strongly encouraged to simply look elsewhere. The SMART NIC uses 256-bit AES Encryption and IPSec Encapsulation to help you add DEPTH to your Cybersecurity "Defense in Depth".

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