

# AccessGuard 1000

## PRODUCT SHEET

### Key Benefits

*Provides a Highly Secure means of connecting and transporting Information to Multiple Locations over Secure or Unsecure Networks.*

#### Highly Secure

Uses private, embedded SSL processing engine that is not subject to the common vulnerabilities of Open SSL-based solutions.

#### Fast "Time-to-Market"

Designed to install in hours, not days. Capacity is expandable via a feature key enable procedure. Releases delivered via software upgrades.

#### Lower Cost of Ownership

Standards-based system delivers high call density in 2U of rack space

#### Investment Protection

Minimal or no modification required to the existing hosts with full compatibility to existing host application protocols. It can also be used with currently deployed point-of-sale terminals.

#### Industry Protocol Support

Supports the latest standards such as Visa I, Visa II, SSL 3.0/ TLS 1.0

#### Highly Versatile System

Integrates SSL processing, protocol-based routing, transaction processing, IP network routing, redundancy, management and reporting on a single solution while effectively reduces the number of network elements.

### Mobile/Broadband Secure Transaction Routing

The AccessGuard 1000 Solution (AG1000) from NewNet is designed to securely route millions of mobile, broadband IP based POS transactions, m-commerce and e-commerce payments transactions, mobile wallet payments etc, while delivering the fundamental security capabilities needed to enable safe and reliable transport of financial transactions, security verification, or any data which requires high levels of data encryption over many network types. Designed with flexibility as one of Access Guard's core features, the system can also process, non-financial based transactions, including, business-to-business verifications, security verifications, point-to-point encryption, insurance & healthcare transactions and a variety of custom applications that require the highest level security and efficiency.

The AccessGuard 1000 terminates SSL sessions that are originated from the mobile, broadband and IP supported POS, ATMs and smart phone based payment terminals. For the Financial providers it also supports transaction protocols like VISA I, VISA II, ISO 8583, TPDU (Transport Protocol Data Unit), and Custom Protocols, which allow AccessGuard to seamlessly interoperate with both next generation and legacy systems, while creating an environment for faster, reliable and more secure transactions.

AccessGuard integrates Security (SSL, TLS etc), Transaction Protocol Processing (VISA, ISO8583, HTTPS (HTTP with SSL) transaction routing, etc) and IP Routing (RIP, OSPF etc) in a single box combining the best in class for internet security, payment protocol handling and network routing. We provide an industry first and unique solution with integrated capability to offer these three critical capabilities to truly perform secure transaction routing in a single system.

#### Scalability

The AG1000 solution is designed to scale from supporting hundreds of mobile, broadband IP payment terminal to supporting then of thousands of terminals. This means, transaction processing support for a million IP POS terminals can be simply achieved by distributing AG1000 nodes throughout the network.

#### Security

Products sold in financial transaction market require strict adherence to regulatory and agency approvals. PCI DSS security requirement is among one of them. The AG1000 is compliant with these standard specifications. Also, support of financial transaction protocols like VISA I, VISA II, etc. provides an opportunity to offer more value added services on top of simple transparent routing of today. AG offers enhanced transaction data security with support for the DUKPT encryption and decryption standards used for encrypting transaction data from IP payment terminal and mobile payment devices. The AG1000 can securely interconnect the new or legacy acquiring/banking host servers with next generation mobile broadband IP POS or payment terminals, while safe guarding the sensitive data during its transit over the public internet or private network. Because of our vast years of experience in designing and selling financial services product including, transaction gateways for POS terminal to the financial market, NewNet has the know how to provide powerful value added services with reduced cost of transactions.

**Key Features**

**Encryption Offloading**

The AG1000 uses a next generation hardware acceleration encryption engine to achieve the performance required for the financial market. This means that as an SSL offloader, the host system is not responsible for processing any portion of the SSL traffic. By processing the entire SSL transaction, AG1000 follows a model of encrypted-data-in from POS to decrypted-data-out towards host system.

**Encryption Aggregation**

This solution can aggregate thousands of simultaneous SSL and non-SSL connections and transactions. It can also support re-use, introduction in SSLv3, which can be used to reduce the burden of establishing a new SSL session by reusing previously established SSL Session ID's. The AG1000 can support thousands of persistent socket connections which support session reuse.

**Redundancy & Load Sharing**

AG1000 System design supports query and download of resolved IP addresses, which is stored and utilized for redundancy routing and load sharing. It also provides a higher availability default path without requiring configuration of dynamic routing or router discovery protocol on every IP POS device.

**Technical Specifications**

**Power Requirements**

- AC 90~264V @47~63 Hz

**IP Protocols**

- NTP
- TCP/IP
- DNS
- LDAP
- RIPv2
- HTTP

**Physical Interfaces**

- 4 GbE or 10GbE SFP
- 1 RJ-45 Console port

**Management**

- SNMP
- SSH
- GUI
- Alarms/Traps
- Syslog

**MAC**

- MD5
- SHA1

**Dimensions & Weight**

- WxHxD : 442x88x660 mm
- 19" rack mount
- 22 Kg/48.5 lbs in weight

**Operating Environment**

- Operating Temperature  
0°C to +40°C
- Storage Temperature  
20°C to +70°C
- Operating humidity  
5% RH to 95% RH (non -condensing)
- Storage humidity  
5% RH to 90% RH (non-condensing)

**Regulatory/Agency Approvals**

- EIA-310-D
- FCC Part 15 Class B testing
- UL 60950-1 and EN 60950-1 HiPot
- RoHS compliant & lead free

**Call Detail Record**

- RADIUS

**Encryption Engine**

- Embedded Encryption co- processor

**Key Exchange**

- RSA
- RSA (512)
- Diffie-Hellman

**Transaction Protocol Support**

- Transparent
- VISA I/II (EIS)
- ISO 8583
- TDPU

**Security**

- SSL v3.0, TLS v1.0
- PCI security requirements
- Digital Certification
- DUKPT

**Encryption**

- RCA (40,128)
- AES (192,256)
- 3DES (168)
- DES (56)

NewNet Communication Technologies is a global provider of innovative solutions for next generation mobile technologies. NewNet specializes in Mobile Messaging, Interactive Voice Response, Secure Transaction Transport, Wireless Broadband and Network Optimization solutions that enable global communication. Founded in 1988, NewNet solutions have reached millions of end users in over 90 countries.