

TCC NS - 500 Network Security

VPN
Security
for
Mission-Critical
Networks



TCC's Network Security
Family of Products

Gigabit VPN, Firewall, & Traffic Shaping

High Performance Internet Security

The TCC NS-500 is a Gigabit Ethernet security device that delivers VPN, firewall and traffic shaping that is optimized for the most demanding environments such as high traffic government HQs, e-business sites, co-location facilities, ASP/ISP data centers and enterprise central sites. This device incorporates custom designed ASICs for accelerating encryption and firewall functions, a high-performance multi-bus architecture, embedded high-speed RISC CPU and dedicated software.

Virtual Private Network (VPN)

The TCC NS-500 is a full-featured integrated VPN gateway that can securely transport data over public networks via Triple-DES, IPSec compliant tunneling. It supports both site-to-site and remote access VPN applications. Integrated VPN functionality also enables secure remote management of the TCC NS-500.

Firewall Protection

The TCC NS-500 provides a full-featured firewall that combines the technologies of packet filters, circuit filters and application proxies.

The TCC NS-500 provides high performance security for demanding government headquarters, service provider and enterprise environments. The TCC NS-500 eliminates performance barriers while delivering ICSA-certified stateful inspection firewall security at up to 700 Mbps.

Traffic Shaping

Traffic shaping enables a network administrator to monitor, analyze and allocate bandwidth utilized by various types of network traffic in real time. The TCC NS-100 uniquely combines the best elements of TCP window sizing and packet queuing techniques to deliver fine-grained traffic control. Applications and users can be prioritized using IP address, application type or time of day.

Central Management

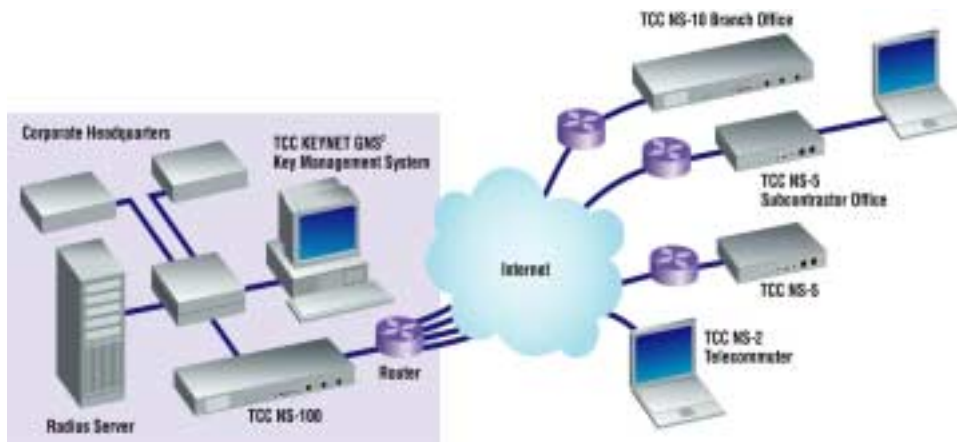
The TCC KEYNET GNS² secure management application provides management from a central site via secure encrypted tunnels. The TCC NS-500 can also be remotely configured using leading Internet-based browsers, SNMP managers or command line interface (CLI).



Features

- > Complete VPN security solution
- > Fully IPSEC compliant
- > Gigabit Ethernet Interface (GBIC)
- > Up to 700 Mbps throughput performance
- > 168-bit Triple DES encryption
- > Advanced firewall protection
- > Traffic shaping
- > Easy to install and operate
- > Unlimited users
- > Up to 10,000 VPN tunnels
- > Up to 20,000 firewall policies
- > Up to 250,000 concurrent sessions
- > Centralized monitoring and management

Virtual Private Network



global network security system

TCC NS-500

specifications

network
security
solution
for mission-critical
virtual private networks

TCC NS-500 Application Environments

Government HQ Central Site: Multi-site government agencies require a high performance, high capacity security solution at the HQ location, and easy to deploy devices for branch offices and remote offices. A combination of the TCC NS-500 for headquarters and TCC NS-100, NS-10 and TCC NS-5 devices for branches and other locations provide an opportunity to configure total solutions that are more cost effective than any other VPN product suite can provide.

E-Business Sites: E-businesses require a high-capacity, easy to deploy, mission-critical security solution.

Typical e-commerce sites must support a large number of simultaneous web site "hits". Each hit can create multiple TCP sessions. If a user hits a site and it is unavailable, they are not likely to come back. The TCC NS-500 eliminates this problem by handling 250,000 simultaneous sessions. The TCC NS-500 supports High Availability (HA) redundant configurations and is the ideal solution for co-location facilities with its small form factor, and can be deployed in less than one hour.

Application Service Providers (ASP's): The TCC NS-500 combination of VPN encryption, firewall, and traffic shaping is ideal for the new ASP business model. The high performance firewall secures the ASP data center from attack and unauthorized access. The high traffic, high capacity VPN enables the ASP to establish secure IPSec VPN tunnels from the ASP data center to a VPN gateway using the TCC NS-5, NS-10 or NS-100 on the customer's premise. This provides the customer with a secure, high performance link to the hosted applications.

Specifications:

VPN

DES (56-bit) or Triple-DES (168-bit) data encryption, Manual or Auto Key Management (via IKE/ISAKMP) or PKI. MD5 or SHA-1 authentication. IPSec-certified. Prevent Playback Attack. Site-to-Site VPN and Star (hub and spoke) VPN network topology.

Firewall

Up to 700 Mbps wire-speed stateful-inspection, up to 250,000 concurrent sessions, up to 40,000 advanced access screening policies, Network Address Translation (NAT), Port Address Translation (PAT), DMZ port, transparent mode, RADIUS user authentication, ICSA certification, Websense URL filtering.

Traffic Shaping

Guaranteed, maximum bandwidth, priority-bandwidth utilization, class-based queuing and TCP window-sizing.

System Management

Web-based GUI, Telnet, console interface Command Line Interface (CLI), Triple-DES encrypted sessions.

Logging and Monitoring

Syslog, WebTrends, E-mail/pager notification, SNMP, SNMP MIB-II, SNMP generic traps and SNMPv2.

Server load balancing

Round robin, weighted round robin, least connections and weighted least connections.

Standards supported

ARP, TCP/IP, UDP, ICMP, DHCP, HTTP, RADIUS, IPSec (IPESP/IPAH), MD5, PKI, SHA-1, DES, Triple-DES, IKE(SAKMP) X.509v3 and SNMP.

Interface

Two GBIC (SX or LX) Gigabit Ethernet ports; Two High Availability (HA) ports, Fast Ethernet out-of-band management interface; DB9 console and modem ports; Hot-swappable fan module; Programmable LCD for rapid deployment and on-site monitoring.

Power

Universal Power Supply: 95-240VAC variable (47 to 63 Hz); power consumption: 100w

Dimensions

17"(L), 17.5"(W), 3.5"(H), Weight: 27 lbs. 19" rack-mountable.

Certification

FCC Part 15 Class A, UL, CE, RE 549, CUL, ICSA and IEC.

Environmental

Temperature: 40-105°F, 5-40°C, Humidity: 5-90%, non-condensing.



Quality

As an ISO 9001 certified company, TCC designs, manufactures and supports high-grade secure communications systems that protect highly sensitive information transmitted over a wide range of data, voice and fax networks. Over 2,000 government/military agencies, financial institutions, telecom carriers and other multinational corporations worldwide rely on TCC to protect their communications networks.

TCC secures mission critical networks for governments, corporations and financial institutions around the world. With over 40 years of experience, TCC is the trusted supplier for organizations that place a high value on the confidentiality of their data and voice communications.

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Technical Communications Corporation
100 Domino Drive Concord, MA 01742-2892 USA
Tel: 978/ 287-5100 Fax: 978/ 371-1280
E-mail: info@tccsecure.com
Web Site: www.tccsecure.com