

### Integrated Enterprise Security Platform

The nTMGE-5500E is a high performance, next generation “all-in-one” integrated enterprise gateway security appliance. It provides applicationlayer Firewalling, IPS, VPN, application publishing, Web caching, Web and Email protection, and comprehensive branch office manageability.



- Custom-built for Large Sized Enterprise
- Supports up to 4,000 Connected PCs
- Redundant Hotswap Disks and Power Supply Modules
- Built-in Highly Scalable NLB Array Support
- Powered by Forefront TMG 2010 – Enterprise Edition

### nTMGE-5500E Integrated Enterprise Security Gateway Features

#### Scalability, High Availability Array and Array Management

<b>High Availability Support</b>	Multiple Forefront nTMGE appliances can be grouped into a load balancing redundant active/active array using integrated Forefront NLB functionality to scale linearly for increased throughput and user capacity
<b>Array Management</b>	<ul style="list-style-type: none"> <li>• Single Site-Standalone Array, Single Manager can manage up to 50 Forefront TMG appliances</li> <li>• Enterprise-Wide EMS Managed Array, Single Manager can manage up to 200 arrays, each array can hold up to 50 TMG appliances for a total of 1000 Forefront TMG appliance</li> </ul>

#### nAppliance Hardware System Platform Features

<b>Processor</b>	64-bit Dual Processor, Eight Core Xeon x86 processor architecture. High-speed processor, cache, larger memory and multi lane PCIe bandwidth designs for maximized deep packet content inspection acceleration with lowest packet latency, highest system throughput and unflinching scalability to support large number of processor intensive integrated security applications workload.
<b>Network Ports</b>	8 GbE LANs – High network port density provides the performance and operational flexibility and redundancy required to secure a high-availability network infrastructure, along with economies of scale needed by large companies, enterprise, data centers, and service providers.
<b>Lights-Out Port</b>	Remote Lights-Out-Management (LOM) via dedicated iKVM network Port guarantees uninterrupted Out-Of-Band remote access even when appliance is off.
<b>SSL Accelerator</b>	Embedded high performance Cavium SSL Co-processor hardware for 100% TCP/IP Offload for enhanced system stability and performance at peak loads.
<b>High System Reliability</b>	<p>Maximum uptime through superior thermal design, component-level redundancy, serviceability and built-in remote lights-out appliance management system:</p> <ul style="list-style-type: none"> <li>• Disk Redundancy: Dual enterprise grade SATA disks and hardware RAID controller for disk mirroring configuration allows uninterrupted system operations in case of a single disk failure. Redundant hot-swap disks offers high availability and no downtime while RAID array is being rebuild on replacement drive.</li> <li>• Power Supply Redundancy: Dual hot-swap, high efficiency power supply modules.</li> <li>• System Image Redundancy and Quick Recovery Option: Efficient In-Field Appliance Image Management: Multiple system image partitions. ARRMS provides PiT image recovery backup/restore, factory reset and bare-metal image recovery</li> </ul>

#### nAppliance Oneface™ Management System Features

<b>Embedded Recovery Manager</b>	<p>Appliance Recovery and Remote Management System (ARRMSTM) provides offline and online remote system management and maintenance to the appliance hardware and software image.</p> <ul style="list-style-type: none"> <li>• ARRMS operating environment functions completely independently of the main appliance hardware and software environment. The appliance can boot into “maintenance mode” where the administrator has full BIOS-level access to the hardware and software environments, even with the appliance operating system shutdown or the hardware powered off.</li> <li>• System image backup, restore and “Bare-Metal” recovery. Backup any number of system image to local disk partition, removable media or a network target, such images than can be used for a quick restore to “last good known state”.</li> <li>• Factory-default rest and Bare-Metal appliance recovery support</li> </ul>
<b>Embedded Web LOM Manager</b>	Remote Lights-Out-Management (LOM) via dedicated iKVM (Keyboard, Video Mouse port access over Web) network Port guarantees uninterrupted Out-Of-Band remote access and manageability for a complete “As if you were sitting in front of it” experience.
<b>Embedded LCD Manager</b>	Headless Appliance Deployment System: Appliance systems include touch-key with graphical LCD hardware and software which allows simple appliance installations without connecting keyboard, mouse and video monitors. This greatly simplifies installs, including remote location installs without local IT support.
<b>Integrated Oneface™ System Manager</b>	Provides rich and robust set of feature including Backup Manager, security manager, update manager, configuration manager, SNMP agents, alert notification system and a component manager for 3rd party add-on integration

#### nAppliance delivers Integrated Appliance “Turnkey” Solutions:

nAppliance Networks, an ISO 9001:2000 is a provider of mission critical network edge security infrastructure provider. Unlike alternatives that are simply based on general-purpose server hardware, our appliances are designed for highest reliability, optimized for maximum performance, and manufactured to exact quality specifications. Trust nAppliance Net-Gateway Forefront appliance series to deliver reliable and comprehensive solutions.

### Performance Specifications

<b>Storage Capacity</b>	: 300GB
<b>Deployment Type (Enterprise)</b>	: Large Size
<b>Recommended Corporate PCs</b>	: 4,000
<b>Recommended Corporate Web Users</b>	: 20,000
<b>Firewall Throughput (Mbps)</b>	: 2,600
<b>HTTP Throughput (Mbps)</b>	: 240
<b>VPN Throughput (Mbps)</b>	: 200

### Hardware Specifications

<b>Processor</b>	Dual Processor, Eight Core Xeon
<b>Memory</b>	16 GB
<b>Network Interfaces (RJ45)</b>	8x GbE LAN
<b>System Management Interface (RJ45)</b>	1x iKVM Lights-Out (IPMI) Remote Access
<b>Storage – Data (Redundant)</b>	SAS Disk, Mirroring (RAID-1), Hot swap
<b>Storage - Recovery OS (ARRMS)</b>	2 GB, USB Flash DOM
<b>SSL HW Accelerator</b>	Cavium CN 1600 Series
<b>LCD w/Keypad Display</b>	Graphical w/ 6-Keypad
<b>System IO Ports (VGA/USB/Serial)</b>	1 / 2 / 1
<b>AC Power Supply</b>	<ul style="list-style-type: none"> <li>• Dual Hotswap Redundant, 650 Watts</li> <li>• 100 to 240 VAC Auto</li> <li>• 47 to 63 Hz, 3A</li> </ul>
<b>Physical Dimensions</b>	<ul style="list-style-type: none"> <li>• Chassis: 19”, 4-post rack-mountable</li> <li>• Height: 1.5” (1U), 1 rack unit;</li> <li>• Width: 17.5”; Depth: 27”</li> <li>• Weight: 30 lbs.</li> </ul>
<b>Storage Temperature</b>	-40°F to 122°F (-40°C to 50°C) 5% to 95% relative humidity, non-condensing
<b>Operating Temperature</b>	35°F to 95°F (1.7°C to 35°C) 5% to 95% relative humidity, non-condensing
<b>Agency Certifications</b>	Safety: UL, FCC, CE, TUV, CB Environmental: WEEE and RoHS
<b>Support and Services</b>	Standard warranty includes 30-day software support with one-year hardware support; upgradable