

Datasheet

BT - NS500 Series



BYTESCREEN

| CONNECT • DETECT • PROTECT |

ByteSecure Bytescreen NGFW

“Secure Every Byte with Bytescreen”



Bytescreen provides a comprehensive suite of advanced network solutions designed to enhance security, connectivity, and management. Our Next Generation Firewall (NGFW) offers robust protection with features like intrusion prevention, application control, and user identification to guard against evolving cyber threats.

BT-NS Series comes with the SD-WAN solution simplifies network management by leveraging software-defined technology, ensuring flexibility, improved performance, and cost efficiency. Our Network Management System (NMS) allows centralized monitoring of network devices, ensuring optimal performance and proactive issue resolution. Additionally, the AAA (Authentication, Authorization, and Accounting) framework secures network access, manages user authentication, and tracks activities to maintain a secure, compliant environment. Together, these solutions empower organizations to enhance security, streamline operations, and optimize performance.



BT-NS 500 Series

Product Specifications

BT- NS500 SERIES		
MODEL	BT- NS300	BT- NS400
Ethernet Interfaces	1Gbps x 8ports	1Gbps x 8ports
SIM Support (LTE/4G)	1	1
Concurrent Sessions	6,00,000	687,000
New Sessions per Second	24,000	27,500
Firewall Throughput (Mbps)	3,000	4,000
NGFW Throughput (Mbps)	2,200	2,900
Firewall IMIX Throughput (Mbps)	2,300	3,000
IPS Throughput (Mbps)	2,100	2,800
Application Control Throughput (Mbps)	2,000	2,600
Antivirus Throughput (Mbps)	1,900	1,500
Threat Prevention Throughput (Mbps)	2,300	3,000
SSL Inspection Throughput (Mbps)	1,500	2,000
VPN Throughput (Site-to-Site) (Mbps)	2,400	3,200
SSL VPN Throughput (Mbps)	1,800	2,400
VPN Tunnels (Max)	3,000	4,000
PMTA Tunnel	50	50
High Availability (HA)	YES	YES
Processor	Multi-Core	Multi-Core
RAM	16 GB	16 GB
USB	1 USB 3.0	1 USB 3.0
Storage (SSD) in GB	64	64
Power Supplies	SINGLE	SINGLE
Operating Temperature	-10oC to 65oC	-10oC to 65oC
Operating Humidity	10% to 90%	10% to 90%

BT- NS500 SERIES	
MODEL	BT- NS500
Ethernet Interfaces	1Gbps x 8 ports
SIM Support (LTE/4G)	1
Concurrent Sessions	7,75,000
New Sessions per Second	31,000
Firewall Throughput (Mbps)	5000
NGFW Throughput (Mbps)	3,600
Firewall IMIX Throughput (Mbps)	3,800
IPS Throughput (Mbps)	3,500
Application Control Throughput (Mbps)	3,300
Antivirus Throughput (Mbps)	3,100
Threat Prevention Throughput (Mbps)	3,800
SSL Inspection Throughput (Mbps)	2,500
VPN Throughput (Site-to-Site) (Mbps)	4,000
SSL VPN Throughput (Mbps)	3,000
VPN Tunnels (Max)	5,000
PMTA Tunnel	50
High Availability (HA)	YES
Processor	Multi-Core
RAM	16 GB
USB	1 USB 3.0
Storage (SSD) in GB	64
Power Supplies	SINGLE
Operating Temperature	-10oC to 65oC
Operating Humidity	10% to 90%

Deployment

Cloud



private/public

On-Prem



Hardware/Server

Virtual



VMware

Performance Test Methodology

General: Maximum throughput measured under ideal test conditions using industry- standard Keysight-Ixia BreakingPoint test tools. Actual performance may vary depending on network conditions and activated services*

Firewall: Measured using HTTP traffic and 512 KB response size.

NGFW: Measured with IPS and application control enabled with HTTP traffic using default IPS ruleset and 512KB object size

Firewall IMIX: UDP throughput based on a combination of 66 byte, 570 byte, and 1518 byte packet sizes.

IPS: Measured with IPS with HTTP traffic using default IPS ruleset and 512 KB object size.

IPsec VPN: HTTP throughput using multiple tunnels and 512 KB HTTP response size.

TLS Inspection: Performance measured with IPS with HTTPS sessions and different cipher suites.

Threat Protection: Measured with firewall, IPS, application control, and malware prevention enabled using Enterprise Traffic Mix.

All Appliance managed by

FusionMaestro

Management Controller (Cloud & On-Prim)

fusionm.bytescreentech.com

Features

Hardened and Crushproof OS	Vulnerability Assessment Dashboard
Aggregation between P2P/MPLS/ILL/DHCP/PPPoE/RF/VSAT/4G/5G	Advance IPS/IDS Signature Based
MPLS over 4G (Private APN)supported	VPN IPsec/SSL
LAN Micro Segmentation	Malicious URL detection
WAN and LAN Virtual Segmentation	DoS, DDoS Protection
Multi WAN Support Including LTE Network &	Gateway Anti-Virus
PMTA Based WAN Link Aggregation & Failover	Domain & Content Filter
AI-Based WAN Selection & Optimization	Network DLP
True SDN based SD-WAN solution.	Waight based context filter
ISP Internet Link Health Check	Keyword, file extension block
Time Based Policy Scheduled	Security Intelligence IP, URL, Domain.
PMTA (Packet-based Multi Tunnel Aggregation)	Application Filter
Flexi LAN & WAN Port	SPI Firewall
Wi-Fi Controller to support Multi-brand Access Points	Deep Packet Inspection (DPI)
VLAN traffic visibility	SNI-Based HTTPS Domain Filter
AI based WAN selection and Optimization	Multi segmatetion IPS Policy
Static and Dynamic routing Support	IPS/IDS SNOT 3 Engine
Multi-Path Multi-Direction (MPMD)	Signatures: Default (500000+), Custom signatures
SD-WAN Tunnel Data Compression Support	Geo-Fencing / Geo Filtering
Auto-discover LAN connected devices	zero-day attacks Protection
Tunnel Rate Limit	Analyzes packet payloads to detect malware
ACL-Based DHCP Server	Threat intelligence
AES128/256 Bit Per Session Encryption & Compression	Network Management System (NMS)
Dynamic Time-based Key Rotation (Lifetime)	Traffic Flow Analyzer connected devices.
IDAM	Block URL Based on web patterns
Role Based Administration	Syn Flood Attack prevention
NAS (Network Access Server)	Anomaly Detection
Quality of Service (QoS)	Zero hour virus Protection
Local DHCP & DNS Support	Search Engine search Protection
Directory Services integration AD, LDAP, TACACS+, RADIUS	CPU, RAM, HDD, Running application & sys services visibility
Packet Redundancy (Packet Duplication	All LAN Device Discovery & Monitoring
DHCP Server and Client	SMS based auto-reboot and device recovery without manual intervention
DHCP Reservation	Power Outage alerts
LAN Security Audit and analysis	Policy Time scheduling
SLA monitoring and alerts	visibility of the connected device OS Type, Patc Installed, Browser details, Application Name, installed date, Version, and Patches
Centralized logging	Centralize Network & Service Management
Syslog support	Advance Logs & Reports
3rd Party REST Support	Advance GUI-Based Diagnostics Tool
Per interface, including VLAN data paket send details	Auto-discover ISP and SIM details
Zero Trust Protection	

Ordering Information

MODEL	PART CODE	DESCRIPTION
BT- NS300	BT- NS300A	Bytescreen Appliance - BT-NS300, Basic Appliance, Including , WAN Optimization, LAN Microsegmentation, LAN Visibility, & VPN. 8 x 1 GBE Port, 1 SIM Card Slot, 1 x Expendable Slot, Online Activation Warranty via Cloud Controller
BT- NS400	BT- NS400A	Bytescreen Appliance - BT-NS400, Basic Appliance, Including , WAN Optimization, LAN Microsegmentation, LAN Visibility, & VPN. 8 x 1 GBE Port, 1 SIM Card Slot, 1 x Expendable Slot, Online Activation Warranty via Cloud Controller
BT- NS500	BT- NS500A	Bytescreen Appliance - BT-NS500, Basic Appliance, Including , WAN Optimization, LAN Microsegmentation, LAN Visibility, & VPN. 8 x 1 GBE Port, 1 SIM Card Slot, 1 x Expendable Slot, Online Activation Warranty via Cloud Controller

Licencing Type

LICENCE	PART CODE	DESCRIPTION
Protect Base Licence	BT-BaseY1 BT-BaseY3 BT-BaseY5	Base Bundle Licence - Stateful Firewall, SD-WAN, VPN, IPS/IDS, Dpmain Filter, Application Filter, Catagory Filter, Gateway Anti-Virus, Threat Intel
ProtectPro Licence	BT-ProY1 BT-ProY3 BT-ProY5	Pro Bundle Licence - Stateful Firewall, SD-WAN, VPN, IPS/IDS, Dpmain Filter, Application Filter, Catagory Filter, Gateway Anti-Virus, Threat Intel, Content Filter, URL Filter, Zero day Protection, AP Controller, DPI, Network DLP

Bytescreen offering these services under your NaaS portfolio, you provide a comprehensive, scalable, and secure networking solution that appeals to businesses of all sizes.

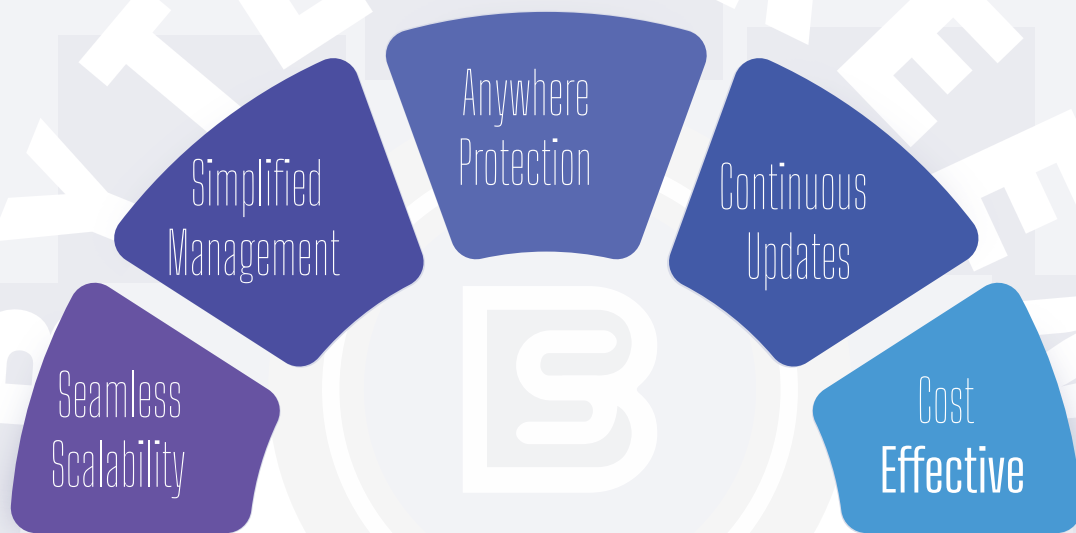


Meet FWaaS: The Cloud-Native Firewall for Modern Enterprises

As enterprises embrace cloud transformation, remote work, and complex hybrid networks, traditional firewalls struggle to keep pace. Enter Firewall as a Service (FWaaS) — a cloud-native security solution designed specifically for the demands of today's dynamic IT environments.

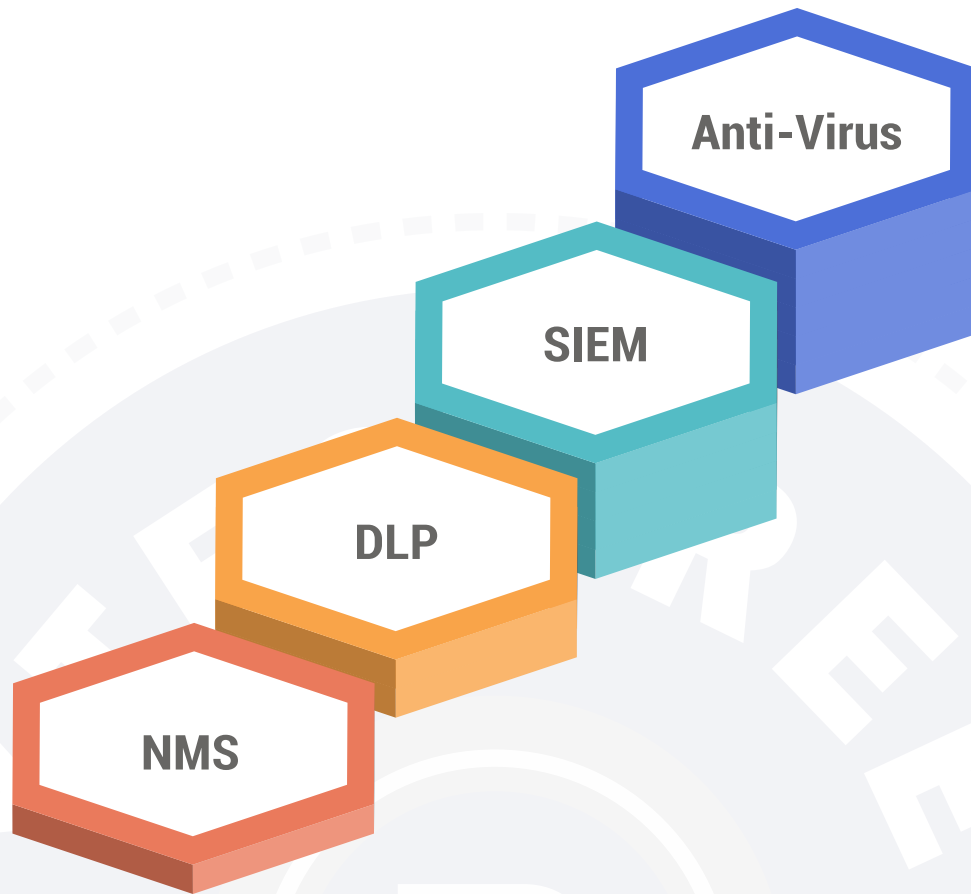
FWaaS delivers firewall protection directly from the cloud, removing the limitations of physical hardware and enabling organizations to secure users, applications, and data no matter where they are. With instant scalability, centralized management, and continuous threat intelligence, FWaaS empowers modern enterprises to protect their networks with unmatched agility and efficiency.

Key benefits of FWaaS for modern enterprises:



Meet FWaaS — the future-proof firewall solution that matches the pace of modern business.

BYTESCREEN CYBERSECURITY BUNDLE



BYTESCREEN MANAGEMENT TOOL (*FusionMaestro*)



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BYTESCREEN Tech Pvt Ltd stands firm in our mission to redefine the landscape of networking solutions through innovation, reliability, and customer-centricity. We are committed to pushing the boundaries of technology to deliver products and services that not only meet but exceed the evolving needs of our clients. As we continue to evolve & grow, our dedication to excellence remains unwavering. We invite you to explore our comprehensive range of networking solutions, tailored to empower businesses of all sizes and industries to thrive in the digital era. Whether you're seeking robust security measures, seamless connectivity, or advanced management tools, BYTESCREEN Tech is here to support your journey towards success.

Contact Details:

For inquiries, collaboration opportunities, or to learn more about how BYTESCREEN Tech can elevate your network infrastructure, please don't hesitate to reach out to us.

sales@bytescreentech.com
www.bytescreentech.com

Need Help? Get BYTESCREEN Expert Support

Bytescreen offers premium OEM assistance through experienced professionals for product configuration and support. TAC advises customers on security best practices to enhance network reliability and prevent hacking attempts.

For Technical Assist: support@bytescreentech.com