



BYTESCREEN
CONNECT • DETECT • PROTECT

BT-NETWORK SECURITY BROCHURE



Bytescreen BT-Network Security is more than a next-generation firewall—it's a complete security and network management ecosystem. Featuring integrated AI-driven defense, advanced WAN optimization, and a powerful Network Management System (NMS), it ensures end-to-end protection for your infrastructure. With multi-layered protection and proactive threat detection, Bytescreen safeguards your data's integrity, confidentiality, and availability. Discover the unmatched performance and comprehensive features designed to protect your organization from evolving cyber threats.

Traditional Multi-Vendor Networking



BYTESCREEN New Age AI Enabled Networking



Hardened & Intelligent Network Security

Advanced WAN Optimization & Redundancy

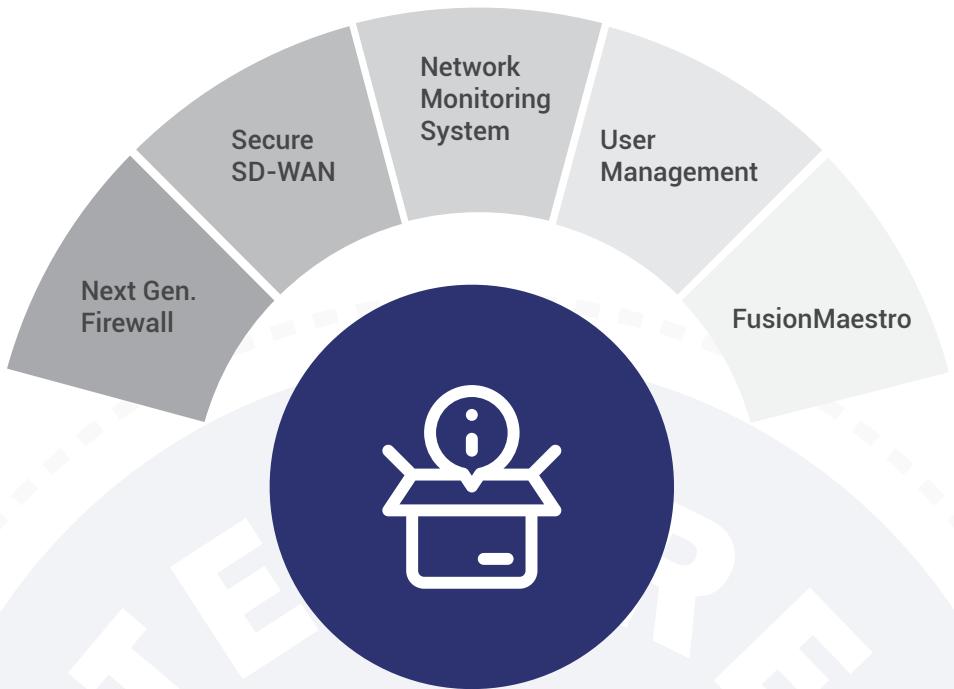
Cutting-Edge Security & Threat Intelligence

Centralized Control & Intelligent Security

Cost-Effective, Scalable & Future-Ready

Simple | Flexible | Economical | Intent Aware

What We Offer?



Security Features:

Firewall & Threat Prevention

- Stateful Inspection & DPI (Deep Packet Inspection):**
Multi-layered firewall protection, analyzing traffic at a granular level to block malicious activities.
- SNI-Based HTTPS Domain Filtering:**
Enforce security policies on encrypted traffic, ensuring control over HTTPS connections.
- SSL Inspection (Offload):**
Scan SSL-encrypted traffic for deeper visibility and threat detection without impacting performance.
- Unified Threat Management (UTM):**
Integrate antivirus, antispam, and bandwidth management into a unified security solution.
- NGIPS (Next-Gen Intrusion Prevention System):**
Leverage 45,000+ signatures for advanced intrusion detection & prevention.
- Geo-Based Filtering:**
Restrict access based on geographic location, enforcing region-specific security policies.
- Anomaly Detection & Protection:**
Proactively detect suspicious activities or anomalies in user behavior and block unauthorized access.
- Comprehensive Threat Protection:**
Safeguard your network from ransomware, malware, and spam with advanced threat detection mechanisms.

BYTESCREEN Irrevocable Security

Network Features: WAN Optimization & Aggregation

Multi-WAN Link Aggregation:

Combine multiple WAN connections, including broadband, 4G/5G, and VSAT, for redundancy and increased bandwidth.

AI-Based WAN Selection:

Intelligent routing to optimize performance by selecting the best-performing WAN link.

ISP Load Balancing:

Distribute traffic across multiple ISP connections for enhanced internet reliability.

Dynamic Link Aggregation:

Seamlessly aggregate P2P, MPLS, ILL, DHCP, RF, and other links for optimal resource utilization.

Inbuilt SD-WAN Technology:

Ensure optimized performance and secure communication across distributed locations with our **proprietary PMTA (Packet-based Multi-Tunnel Aggregation) technology**, which enhances reliability and bandwidth utilization through intelligent tunnel aggregation.

Packet Duplication:

Ensure data reliability and minimize loss through redundant packet transmission across WAN links.

Wi-Fi Controller for Multi-Brand APs:

Manage wireless networks across multiple brands of access points for cohesive connectivity.

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Network Segmentation & Monitoring

- **Virtual Segmentation (WAN/LAN):**
Isolate critical assets and applications from potential threats, protecting sensitive data.
- **Micro-segmentation & VLAN Support:**
Provide fine-grained control over network traffic to secure sensitive data.
- **Packet Redundancy (Packet Duplication):**
Ensure reliability and resilience against data loss.
- **Multicast Forwarding:**
Facilitate efficient data distribution to multiple destinations, ideal for high-bandwidth applications.

VPN & Encryption

- **PMTA (Packet-based Multi-Tunnel Aggregation):**
Enhance reliability and bandwidth by aggregating multiple VPN tunnels, ensuring optimal data flow across different network paths.
- **IPsec Site-to-Site VPN:**
Create secure tunnels for data transmission across remote locations, ensuring encrypted communications.
- **SSL VPN:**
Provide secure remote access to your network through encrypted SSL connections, offering flexible and user-friendly VPN access for remote workers and external users.
- **Dynamic Key Rotation:**
Add an extra layer of security to your VPN connections by frequently rotating encryption keys.

User Authentication & Control

- **Role-Based Access Control (RBAC):**
Manage access rights through a role-based approach, ensuring only authorized personnel can access sensitive systems.
- **Multi-Factor Authentication (MFA):**
Enhance authentication with MFA and OTP integration, securing Web UI access for users.
- **IDAM (Identity and Access Management):**
Centralized management of user identities and access permissions, ensuring strict access control across the network.
- **NAS (Network Access System):**
Control and manage device access to the network, ensuring that only authorized devices can connect.

Log & Management Features

Centralized Management & Orchestration

- **Network Management System (NMS):**
Centrally manage all network devices with real-time monitoring, configuration push, and NOC monitoring for streamlined administration.
- **Proactive Threat Monitoring:**
Conduct regular LAN security audits and analysis to identify vulnerabilities and preemptively mitigate security risks.
- **Central Policy & Security Management:**
Ensure consistent security policies across multiple branches or locations, simplifying network management.
- **Self-Healing Action Reports:**
Automatically detect and resolve network issues, minimizing downtime and maximizing uptime.

Logging & Reporting

- **Graphical Real-Time Logging:**

Visualize network traffic, security events, and device performance in real-time to make informed decisions.

- **Comprehensive Reporting:**

Generate detailed reports for compliance and network performance analysis, ensuring visibility into all activities.

- **Threat Intelligence & Analysis:**

Leverage in-depth threat intelligence for early detection and response to security incidents, staying ahead of emerging threats.

Intuitive GUI for Diagnostics

- **Real-Time Network Visualization:**

Monitor your network's health and performance with an intuitive, user-friendly graphical interface, offering detailed insights into traffic flow, bandwidth usage, and system status.

- **Comprehensive Troubleshooting Tools:**

Built-in diagnostic tools for deep analysis of network issues, enabling quick identification and resolution of problems.

- **Customizable Dashboards:**

Tailor your GUI interface to display critical network data in a manner that suits your operational needs, helping your IT team make faster, more informed decisions.

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BytesSecure a Next Gen. Firewall Solution with On-Prem, Cloud Gateway or SASE Support

Multi Path Multi Direction

Fragmented & distributed packets makes it harder for attackers to reconstruct the data stream

IPS/ IDS/ Threat Intel

Snort 3 based IDS/ IPS 50+ databases subscribed for signatures Threat Intel dashboard for SOC analysis



SIEM/ XDR

Integration with multiple third-party solutions for provided in-depth Security incident analysis compliant with major standards

Software-Defined Network Security

Virtualization Of LAN & WAN environments allows granular access control so that a single OEM attack does not compromise every firewall deployed.

BYTESCREEN TAKE AWAY

Crash-free
& hardened
embedded
ByteGuard OS

AI-Enable
WAN Link
Management

Support
Multi-Brand
APs

VPN &
Secure
Connectivity

Next Gen.
Firewall

IPS / IDS with
SNORT3
Imbedded

User Identity &
Access Control

Local DNS &
DHCP Server

LAN/WAN
Management

Threat
Intelligence

Content and
Application Filter

Centerized
Management

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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.

www.bytescreentech.com

