

# /// BLUEGRID X SERIES

## Technical Specifications Carefully tuned with compliance in mind.

The bluegrid x series delivers a complete high-security environment in a single enclosure tailored to meet your specific compliance requirements and business needs.

Every architectural tier of the grid is security-hardened and provisioned to run on a dedicated pair of blue node appliances. These tiers are carefully guarded by next-generation firewalls and multilayer switches, reinforcing access control lists and policy-based routing. Further down the stack, each compute node is a 1U rack-mounted device tuned for intense performance of multi-workload processing. Lastly, each storage node is a 2U rack-mounted device built for sub-microsecond data transfer rates and synchronous replication to peers.

A single grid serves as a dedicated compliance environment to your entire organization or business unit, delivering superior security, predictable performance, consistent high availability and on-demand scalability. Multiple grids are also supported for metro-clustering scenarios.

### Key Benefits

- ◆ Meets and exceeds prevalent compliance standards
- ◆ Provides assurance of privacy and customer trust
- ◆ Enables uniform governance of all financial traffic
- ◆ Reduces fraud via sensitive data protection

### Key Features

- ◆ Embodies a “zero trust” model across the board
- ◆ Applies data-centric security with tokenization
- ◆ Securely integrates with major financial networks
- ◆ Employs centralized, in-grid identity management
- ◆ Provides complete audit trail and data archiving

The nodes are equipped with built-in intelligence tuned to improve performance, reduce downtime and lower energy consumption. Internal networking, as well as data center inter-connects, are physically and logically protected to alleviate a possibility of critical data theft or loss.

## Purpose-built for processing high-volume, low-latency transactions.

All bluegrid models are designed to function as secure, autonomous systems that deliver performance. Network access control, intrusion prevention, VPN, TLS termination, load balancing, data tokenization, identity management and event analytics are built-in features.

Model	x10	x12
Next-generation Firewall	●	●
Multilayer Switch	●	●
Traffic Manager	●	●
Data Gateway	●	●
Cyber Vault	●	●
Identity Manager	●	●
Event Manager	●	●
Storage Block	○	●



# Engineered System Elegantly built and configured to order.

## Network Devices

- ◆ **Next-generation Firewall** – integrated enterprise security appliance with ACL, VPN and IPS capability.
- ◆ **Multilayer Switch** – SDN-ready, stackable L2/L3 1Gbps switch with 10Gbps uplinks, QoS and VPLS.

## Compute Nodes

- ◆ **Traffic Manager** – TLS termination proxy, web application firewall, DoS blocking, L7 load balancing and content shaping for inline data protection.
- ◆ **Data Gateway** – message-level encryption; routing to financial networks, including payment gateways, credit bureaus, issuer banks and e-wallet providers.
- ◆ **Cyber Vault** – data encryption and cryptographic key management, including HSM; disk-based persistent and a “zero retention” tokenization engines.
- ◆ **Identity Manager** – RADIUS based network device access control, LDAP directory service, X.509 digital certificate store and two-factor authentication.
- ◆ **Event Manager** – SYSLOG based centralized logging, security event analytics, intelligent search, NTP time synchronization and SNMP real-time alerting.

## Storage Nodes

- ◆ **Storage Block** – low-cost shared storage, multipath iSCSI connectivity, synchronous in-grid replication via 40Gbps host adapter, automatic failure detection and real-time offsite replication for disaster recovery.

The ultimate protection of business critical digital assets is realized via the implementation of the core cyber security principles, such as authentication, authorization, confidentiality, integrity and non-repudiation.

Similar to Google and Amazon, **bluegrid** presents a standards based, service-oriented API for application integration. Business Service Interface (BSI) is a simple and portable web service layer available to end-user devices and backend systems via SOAP and REST endpoints. Access to services is protected with SAML or OAuth, respectively. Legacy scenarios are covered with a “zero impact” content shaping feature, which eliminates the need for your client or server system modifications altogether.

**Your customer data is safe and compliance is sustainable.**

## Quickly scaled up to optimal capacity.

### bluenode – compute (1U)

CPU: 2 × Intel Xeon, 2.3GHz, 18-core  
Memory: 24 × 64GB LRDIMM, DDR4  
Internal storage: 4 × 6TB, SAS 7.2k rpm  
Network ports: 4 × 1Gbps, 2 × 10Gbps  
PCIe slots: 3 × PCIe 3.0 (1 full, 2 half-size)  
Power supply: 2 × 500W, hot-pluggable

### bluenode – storage (2U)

CPU: 2 × Intel Xeon, 2.3GHz, 18-core  
Memory: 24 × 64GB LRDIMM, DDR4  
Internal storage: 15 × 6TB, SAS 7.2k rpm  
Network ports: 4 × 1Gbps, 2 × 10Gbps  
PCIe slots: 6 × PCIe 3.0 (2 full, 4 half-size)  
Power supply: 2 × 500W, hot-pluggable



# 65%

Average cost savings on secure storage of archived data. Reliability guarantee.