Affordable Load Balancing, High Performance and Feature-Rich

XPoint is the leader in load balancing and application delivery solutions at price points most customers can easily afford. With all-in-one solution from server load balancing to global server load balancing, it can meet the needs of almost any applications.

The AppScaler 1020 is a 1RU single-power appliance with 3.5Gbps throughput that supports all load balancing and application delivery features and provides a cost-effective yet powerful solution for medium size businesses and small enterprises.

Hardware Platform Specification

Performance	
Throughput (L4/L7)	3.5Gbps/3Gbps
SSL TPS (2K Keys)	5,000
Concurrent Connections	8,500,000
Layer 7 HTTP RPS	170,000
Network Interface	
Gigabit Copper	6
Gigabit Fiber	0
10GE Fiber	0
25GE Port(SFP28)	0
40GE Port(QSFP+)	0
100GE Port(QSFP28)	0
Hardware Specification	
Processor	Intel Dual Core
Memory (ECC RAM)	8GB
Storage	128GB SSD
ASIC SSL Hardware	N/A
Dimensions(W x D x H)	460mm (W) x 440mm (D) x 50mm (H)
Rack Units (Mountable)	1U
Unit Weight	9 kgs
Power Supply	1U ATX single power supply
Heat in BTU/hour	1050
Operating Ranges	Temperature 0° - 40° C	Humidity 10% - 85%

Application Delivery

IPv4/IPv6 support
TCP/UDP Layer 4/7 Server Load Balancing
Loading Balancing Methods
- Round Robin
- Ratio Round Robin
- Least Connection
- Ratio Least Connection
- Predictive
- Ratio Response Time
- Source IP Hash
Layer 7 Content Switching
- URL
- URL Token
- HTTP Method
- HTTP Request Header
- HTTP Content
- Source IP
Layer 4/7 Session Persistence
- HTTP(s) Session
- RDP
- RDS Session
- Source IP
- SSL SessionID
Advanced Health Monitoring
- ICMP
- TCP/UDP
- HTTP(s)
- SMTP/POP3
- DNS/FTP/LDAP/NNTP
- and more
STARTTLS support for Secure Email & LDAP
Virtual Server Group/Member Support

SSL Acceleration

SSL Termination and SSL Bridging Support
TLS(1.0,1.1,1.2,1.3) and SSL(2.0,3.0) Support
SNI Support
TLS/SSL Certificate Chaining
TLS/SSL Intermediate Certificate
ASIC-Based SSL Accelerator
4096-bit SSL Key Support
Hardware Security Module Support

Single Sign-On

Endpoint Pre-Authentication
SSO Profile/Group
Authentication protocols
- LDAP
- Radius
- RSA SecurID
- Kerberos
- NTLM
Single Sign-On methods
-Client Initiated HTTP Form
- Client Initiated HTTP Form + RS HTTP Basic Auth
- Client Initiated HTTP Form + RS HTTP Form
- Client Initiated HTTP Form + RS Kerberos
- Client HTTP NTLM Auth
- Client HTTP NTLM Auth + RS Kerberos
Two factor authentication
Custom Login and Post Form

Application Security

Web Application Firewall
- Cross Site Scripting
- SQL Injection
- Cookie Tampering
- Real time block or audit
- Up to date WAF rules
Integrated DDoS protection for application services
Snort Compatible Intrusion Prevention
Kernel Level ACL
IP Anomaly Detection
Connection Limiting

Global Server Load Balancing

Active-Active and Active-Passive Deployment Mode
Intelligent Distribution Methods
- Round Robin
- Static Proximity
- Location
-Ratio Round Robin
-Custom Load
- Dynamic Metrics

Networking

Integrated Layer 2/Layer 3
One-arm, Multi-arm Support
Direct Server Return Support
NAT-Based Forwarding
VLAN Trunking (802.1Q)
Link Aggregation (802.3ad)
VXLAN Support
Full native IPv6 management and feature support
SLB-PT (Protocol Translation),
SLB-64 (IPv4<–>IPv6,IPv6<–>IPv4)
SNAT
Stateful Failover
Dynamic routing (BGP, BFD, OSPFv2/v3, RIP, RHI)

Virtualization

Virtual Appliance for VMware vSphere ESXi, Microsoft Hyper-V and Citrix Xen
Hypervisor acceleration and management integration

Administration

Dedicated on-box management interface (GUI, CLI, SSH,)
Web User Interface
Real time packet capture for analysis and debug
Comprehensive Reports and Logs
Role Based Management