CRYSTAL EYE SE101

Red Piranha

Australia's only Security First SASE solution on a Dedicated Hardware Control Plane Developed with Intel.

Using the latest hardware Secure Edge 101 delivers Borderless Firewalling ideal for the Data Center operator looking to provide true TDIR for cloud environments.

Crystal Eye Secure Edge 101 delivers powerful, flexible, and scalable protection for cloud infrastructure in a highly dense hardware package that not only takes up a fraction of space compared to traditional rack mounted solutions but requires up to 80% less power. Combined with our range of integrated services, these advanced solutions are an easy to deploy, easy to manage, effective security solution.

Through Crystal Eye's powerful threat intelligence system, the platform processes over 19-million Indicators of Compromise (IoC) per day using real-time visibility & analytics to enable automated actionable intelligence.

Complete SASE Platform

- Integrated XDR capabilities
- Automated Actionable Intelligence
- Multi-layered security delivering defence in depth
- Built-In Compliance Feature Set
- Risk Assessment Reports
- Vulnerability Scanning

Full Network Control

- Network Security Monitoring
- Advanced deep-packet inspection and decryption
- Instant SOC & embedded SIEM solution
- On-demand PCAP forensic analysis and logging
- Gateway application whitelisting
- Extended log processing, retention & policy management controls

Firewall throughput:	32Gbps	The maximum capacity between two ports of the same bandwidth with no packet loss.
IDPS throughput:	4.6Gbps	The maximum volume of data that can be processed by the Intrusion Detection & Prevention modules with no packet loss.
True Security Throughput (TST):	2.4Gbps	The lab tested peak load with all security features turned on and processing a typical enterprise network profile: 76% http(s) web browsing, 12% real-time applications (VoIP, Video conferencing) and 12% other traffic types.

SPECIFICATIONS

Processing System
Intel Atom P5700 Series Processor, Snow Ridge-NX 16 core SoC 2.2GHz

Memory Capacity
32GB DDR4

Networking capacity
1x100GbE QSFP28

Interfaces
1 USB-C, PCIe x 16, Ethernet Management Interface, Serial BMC Interface,

Stateful Inspection Firewall Features
• Multiple Security Zones
• Location-aware and Device-aware Identity-based Access
• Control Policy
• Security Policies – IPS, Web Filtering, Application Filtering, Anti-virus, Anti-spam and QoS
• Policy based Source and Destination NAT, Gateway Specific NAT Policy
• MAC & IP-MAC Filtering
• Spoof Prevention

Gateway Anti-Virus & Anti-Spyware Features
• SSL Mismatch Detection
• Cloaked URL Detection
• Virus, Worm, Trojan Detection and Removal
• Spyware, Malware, Phishing Protection
• Scans HTTP, HTTPS, FTP, SMTP/S, POP3, IMAP, IM, SMB, VPN Tunnels
• Customised Individual User Scanning
• Scan and deliver by file size
• Block by file types

Web Filtering Features
• More than 130 categories
• Auto category updates
• Exception list
• IP or hostname based
• Controls based on URL, Keyword and File type
• Protocols supported: HTTP, HTTPS
• Block malware, Phishing, Pharming URLs
• Block java Applets, Cookies, Active X, Google Cache pages
• Data leakage control by blocking HTTP and HTTPS upload
• Banned phrase list, YouTube for Schools
• Custom Denied Message per Web Category

SD WAN Support
• IPSEC VPN for site to site communications
• Authentication – Active Directory, LDAP, RADIUS,
• Multi-layered Client Authentication - Certificate, Username/Password
• Lightweight SSL VPN Tunnelling Client
• TCP based Application Access – HTTP, HTTPS, RDP, TELNET, SSH Wireguard SSL VPN

AI and Automated Actionable Intelligence
• AI rule matching to detect anomalies in network traffic
• Automatic defence rules from over 19 million IOC's processed daily
• Machine learning smart detection of network based SSH attacks

End Point Application Whitelisting (CEASR)
• Easy Device application mapping
• Ability to whitelist known good device Applications from the gateway
• Protect against Zero-day attacks
• Deal with encrypted malicious traffic with one click

Advanced Compliance Features
• Azure AD threat analysis
• Vulnerability Scanning
• DLP Alerting and Blocking

Intrusion Prevention System Features
• 5 managed rule sets, comprising of 58k+ rules updated daily from the latest threats
• HTTP/TLS/DNS Logging
• Actions – Alert, Drop, Reject, Pass
• Auto IPS Updates from Red Piranha threat intelligence sharing platform
• Protocol Anomaly Protection
• SCADA, IIot and IoT Aware
• VoIP and SIP protocol reporting
• Easy tuning in dashboards to reduce false positives

Application Filtering Features
• Layer 7 (Application) & Layer 8 (User) Control and Visibility
• Inbuilt Application Category Database
• Visibility and Controls for HTTPS based micro-apps like Facebook chat, YouTube video upload

SD WAN Features
• TCP & UDP Tunnelling
• Authentication – Active Directory, LDAP, RADIUS, Local
• Multi-layered Client Authentication - Certificate, Username/Password, MFA
• Lightweight SSL VPN Tunnelling Client
• TCP based Application Access – HTTP, HTTPS, RDP, TELNET, SSH

Bandwidth Management Features
• QoS Policies
• Guaranteed & Burstable bandwidth policy
• Application & User Identity based Traffic Discovery
• Data Transfer Report for multiple Gateways

Networking Features
• Automated Fallover/Failback
• Interface types: Alias, Multisport Bridge, LAG (port trunking), VLAN, WWAN, TAP
• Multiple DHCP Servers support
• Supports HTTP proxy, Parent proxy with FQDN
• Dynamic Routing: RIP v1&v2, OSPF, BGP
• IPv6 Support: Dual Stack Architecture: Support for IPv4 and IPv6 Protocols
• IPv6 Route: Static and Source

Administration & System Management Features
• Web-based configuration wizard
• Role-based Access control
• Firmware Upgrades via Web UI
• Web 2.0 compliant UI (HTTPS)

User Authentication Features
• Internal Database
• Microsoft Active directory connector
• Internal active directory server

Storage System/Optional Extended Storage (max)
256GB eMMC System Storage

Dimensions
Full height PCIe 167mm x 111.15mm
Weight: 2Kg

General Details
Passive Heatsink Cooling (TDP 76W)
Operating Temperature 0°C – 50°C (32°F – 122°F)

Power
12V PCIe + 3.3V AUX
Max 115W

AUTOMATED **PROTECTION** ▸ AUTOMATED **DETECTION** ▸ AUTOMATED **RESPONSE**

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