



Data Sheet

Platform	
Form Factor	Bare metal (ISO), Virtual Appliance (OVA, QCOW2)
Hypervisor	VMware ESXi 5.1 & above, KVM
Ethernet	802.1Q(VLAN Tagging), Aggregated Ethernet (LACP), CFM (Connectivity and Fault Management)
Resiliency	High Availability with Active-Standby
Operations	CLI, Syslog, IPFIX, SNMPv1, SNMPv2, SNMPv3, Packet capture utility
Network & Security Functions	
DHCP	Client, Relay and Server
Routing	Static routing, Bidirectional Forwarding Detection (BFD), VRRP, Routing Instances (VRF), OSPF, BGP, ECMP, Policy-Based Forwarding
QoS	Classification, Marking, Rate-Limiting, Scheduling, Queuing, Shaping
CG-NAT	Static NAT, Dynamic NAT, NAPT, Destination NAT, Static NAT with Port Translation, Inter-Tenant NAT, ALG support; FTP, TFTP, PPTP, SIP, ICMP, IKE
Stateful Firewall	Zone-based, Address Objects, Address groups, Rules, Policies, DDoS (TCP/UDP/ICMP Flood), Syn-cookies, Port-scans, ALG support; SIP, FTP, PPTP, TFTP, ICMP
Application Visibility	Identify more than 2000+ applications and protocols, Application group support, Application filter support, Application visibility and log support
Next-generation Firewall	Application Identity (AppID) based policy rules, IP Blacklisting, Whitelisting, Geo-IP, Customer App-ID signatures, SSL certificate-based protection, Expired certificates, untrusted CAs, Unsupported cyphers and key lengths
Anti-Virus	Network/Flow based protection with auto signature updates. HTTP, FTP, SMTP, POP3, IMAP, MAPI support
URL Categorization & Filtering	URL categories & reputation, including customer-defined, Cloud-based lookups, Policy trigger based on URL category, URL profile (blacklist, whitelist, category reputation), Captive portal response including customer defined. Actions include block, inform, ask, justify, and override
IDS/IPS	Default & customer defined signatures & profiles. Omega & Snort rule formats, L7 DDoS. Security package with incremental updates. Full, incremental (daily) & real-time threat (every hour)
SD-WAN	Secure, zero touch branch provisioning, Template-based policies with parameterization, Centralized route, policy enforcement, L7 Application SLA enforcement over network link SLAs with QoS, Intelligent path selection – default and user-defined, load balance across WAN links, providing various overlay, redundant SD-WAN controller, seamless integration with existing WAN optimization devices and branch routers
Advanced SD-WAN Features	Packet Striping for best throughput across bundle of low speed interfaces; Packet Cloning / Decloning for replicating important flows to ensure best performance and availability; Forward Error Correction to restore traffic in lossy and over-congested links; MOS Based Traffic Steering to measure VoIP flows quality and to steer VoIP flows to achieve best voice session qualities; Cloud Provider DIA Traffic Optimizations; Probe based, as well as Inline Traffic Measurements and more
VPN	Site-to-Site, Route/Policy based VPN, IKEv2, IKEv1, DPD, PFS Confidentiality algorithms: Tunnel mode ESP with AES-128, AES-256 Modes: CBC, XCBC, GCM Authentication & Integrity: Pre-shared and PKI Authentication with RSA certificates, hashing, Diffie Hellman key exchange
Load Balancing	Layer 4 load balancing, monitoring, persistence, Deployment modes; Transparent, Routed and Direct Server Return
SSL Inspection	HTTPS proxy (forward & reverse), SSL v3 & TLS 1.2 proxy, Captive Portal for HTTPS requests
DNS Proxy	DNS Split Proxy
User & Group Level Authentication	Active Directory integration using LDAP and Kerberos protocols, Captive Portal Form for LDAP



System Requirements

Hypervisor Supported	VMware vSphere 5.5 & 6.0 KVM – RHEL/CentOS 6.4, Ubuntu 12.04, 14.04
VMware vCloud Director Version Support	vCloud Director 5.5 & 6.0
OpenStack Version Support	Havana, Icehouse, Juno, Kilo
OpenStack Distro Support	Red Hat, Canonical Ubuntu, Piston CloudOS

Omega-Specified Appliance Configurations

Omega-specified appliance configurations provide a wide range of price and performance points starting from 250 Mbps, going all the way up to 100 Gbps+ to cover diverse business needs.

Omega-100 / 110	Desktop network appliance with Intel Atom 2-Core / 4- Core CPU, 4GB / 8GB ECC memory, 6 GbE interfaces, integrated Quick Assist, TPM, 64 GB SSD w/ passive or active cooling options, external PS, and with wireless interface options
Omega-500 / 510 / 520	1RU appliance with Intel Atom 2-Core / 4- Core / 8-Core CPU, 4GB / 8GB / 16 GB ECC memory, 6 GbE interfaces, integrated Quick Assist, TPM, 64 GB SSD w/ active cooling, internal PS, with wireless interface options and modularity
Omega-800 / 810	1RU network appliance with single Intel Xeon®-D CPU with 6 / 8 CPU cores, 32 GB / 64 GB ECC DRAM, 128 GB / 256 GB SSD, w/10GE SFP+ interfaces at base, modular NIC slots or fixed form factor with built-in Ethernet switch, TPM, optional Encryption Acceleration cards, resilient fans, redundant PSU
Omega-1000	1RU network appliance with single Intel Xeon® CPU with 14 cores, 64 GB ECC DRAM, 10GE SFP+ interfaces at base, modular NIC slots or fixed form factor options, TPM, optional Encryption Acceleration cards, redundant cooling and PSU
Omega-2000 / 2100	2RU network appliance with dual Intel Xeon® CPUs with 8 / 14 cores each, 128 GB ECC DRAM, 4 or 8 NIC slots, 512 GB SSD, TPM, optional Encryption Acceleration cards, redundant cooling and PSU
Interfaces supported	Copper 10/100/1000 Ethernet and 1/10/40 GE via SFP/SFP+/QSFP modules or built-in fiber Ethernet interface flavors

Note: Please contact Omega or Omega-approved white box appliance vendors to get more details of the approved appliances and associated modules.