VeloCloud Edge

VeloCloud Cloud Delivered SD-WAN assures enterprise and cloud application performance over Internet and hybrid WAN while simplifying deployments and reducing costs.
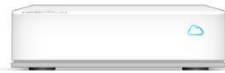
Technical Specifications	Edge 520	Edge 540	Edge 840	Edge 1000
Maximum Throughput[1]	100 Mbps	200 Mbps	1 Gbps	1 Gbps
Maximum Tunnel Scale	50	100	400	2000
Maximum VQM Capacity[2]	10 Mbps	20 Mbps	20 Mbps	20 Mbps
Routed Ports	2-Port GE 2-Port SFP 4-USB (3G/4G)	2-Port GE 2-Port SFP 4-USB (3G/4G)	4-Port GE 2-Port SFP+	4-Port GE 2-Port SFP+
Switched Ports	8-Port GE Managed Switch	8-Port GE Managed Switch	1-Port GE	1-Port GE
Configurable Routed/Switched	N/A	N/A	1-Port GE	3-Port GE
Total GE Ports (Routed+ Switched)	10-Port GE	10-Port GE	6-Port GE	8-Port GE
Default Memory DRAM	4 GB DDR3	4 GB DDR3	8 GB DDR3	8 GB DDR3
Maximum Memory DRAM (Optional)[3]	4 GB DDR3	8 GB DDR3	32 GB DDR4	32 GB DDR4
Flash memory	8 GB	8 GB	N/A	N/A
SATA/HDD (Optional)	N/A	N/A	100 GB	100 GB
MTBF	6 Years	6 Years	6 Years	6 Years
USB Ports Local Software Install	2 - USB 2.0 2 - USB 3.0	2 - USB 2.0 2 - USB 3.0	2 - USB 3.0	2 - USB 2.0 2 - USB 3.0
Console Port	N/A	N/A	RJ45 IPMI 1 - VGA	RJ45 IPMI 1 - VGA

1. The throughput available on a platform is based on the license. Throughput is measured with Dynamic Multipath Optimization and VPN. Maximum throughput for given platform may improve as technology evolves.

2. The Voice Quality Monitoring (VQM) capacity available on a platform is based on the license.

3. DRAM and SATA/HDD upgrade is based on the license.

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Technical Specifications	Edge 520	Edge 540	Edge 840	Edge 1000
High Availability	Yes	Yes	Yes	Yes
Wireless (Maximum Power Subject to Change by Channel/Region)	1 x 802.11a/b/g/n/ac (Single Radio Dual Band)	1 x 802.11a/b/g/n/ac (Single Radio Dual Band)	N/A	N/A
Capabilities/Antenna	3 x 3 MIMO 3 Internal Dual-Band Antennas	3 x 3 MIMO 3 Internal Dual-Band Antennas	N/A	N/A
Radio Certifications	FCC (US) CE (Europe) R-Mark (Japan) EN320328 (Hong Kong) SRRC (China)	FCC (US) CE (Europe) R-Mark (Japan) EN320328 (Hong Kong) SRRC (China)	N/A	N/A

Power Specifications	Edge 520	Edge 540	Edge 840	Edge 1000
Power Supply	External: AC	External: AC	Internal: AC	Internal: AC
Redundant Hot-Swappable Power Supply	N/A	N/A	N/A	YES Internal: AC
AC Input Voltage (VAC)	100 to 240 Autoranging	100 to 240 Autoranging	100 to 240 Autoranging	100 to 240 Autoranging
AC Input Frequency	50 to 60 Hz	50 to 60 Hz	50 to 60 Hz	50 to 60 Hz
Power Load (Typical/Max)	25W/45W	30W/50W	40W/70W	150W/200W

Sizes and Weights	Edge 520	Edge 540	Edge 840	Edge 1000
Dimensions (L x D x H)	206mm x 180mm x 51mm	206mm x 180mm x 51mm	437mm x 249mm x 43mm	650 mm x 437mm x 43 mm
External Power Supply Dimensions (H x W x D)	109mm x 62mm x 31mm	109mm x 62mm x 31mm	N/A	N/A
Mounting (Not Included)	Desk/Wall/19 inch 2-RU (2 units side-by side)	Desk/Wall/19 inch 2-RU (2 units side-by side)	19 inch 1-RU	19 inch 1-RU
Weight	2.6 lb	2.6 lb	12 lb	23.5 lb

Environmental Specifications	Edge 520	Edge 540	Edge 840	Edge 1000
OPERATING CONDITIONS				
Temperature	32º to 104º F (0º to 40º C)	32º to 104º F (0º to 40º C)	50º to 104º F (10º to 40º C)	50º to 95º F (10º to 35º C)
Relative Humidity	5% to 85%	5% to 85%	5% to 85%	5% to 85%
Altitude	5,000m	5,000m	5,000m	5,000m
NON-OPERATING CONDITIONS				
Temperature	-40º to 158º F (-40º to 70º C)	-40º to 158º F (-40º to 70º C)	-40º to 158º F (-40º to 70º C)	-40º to 158º F (-40º to 70º C)
Relative Humidity	5% to 95%	5% to 95%	5% to 95%	5% to 95%
Altitude	5,000m	5,000m	5,000m	5,000m

Regulatory and Compliance	Edge 520	Edge 540	Edge 840	Edge 1000
SAFET Y				
UL 60950-1	✓	✓	✓	✓
CAN/CSA C22.2 No. 60950-1	✓	✓	✓	✓
EN 60950-1	✓	✓	✓	✓
AS/NZS 60950-1	✓	✓	✓	✓
IEC 60950-1	✓	✓	✓	✓
GB-4943	✓	✓	✓	✓
EMC				
47 CFR, Part 15	✓	✓	✓	✓
ICES-003 Class A	✓	✓	✓	✓
EN 55022 Class A	✓	✓	✓	✓
CISPR 22 Class A	✓	✓	✓	✓
AS/NZS 3548 Class A	✓	✓	✓	✓
VCCI V-3	✓	✓	✓	✓
CNS 13438	✓	✓	✓	✓
EN 300-386	✓	✓	✓	✓
EN 61000 (Immunity)	✓	✓	✓	✓
EN 55024	✓	✓	✓	✓
CISPR 24	✓	✓	✓	✓
EN 50082-1	✓	✓	✓	✓

Software Features

The VeloCloud SD-WAN solution offers a wide range of capabilities that assures enterprise and cloud application performance over Internet and hybrid WAN while simplifying deployments and reducing costs. Key software capabilities of the VeloCloud SD-WAN solution are listed below.

Category	Features
AAA	RADIUS, Local authentication and authorization, Multitenant 3 Tier RBAC Architecture, Auditing, Roles and privileges
Availability	HA for Edge, Disaster Recovery for Orchestrator, Multi-Link for high availability of WAN. Edge Clustering
Configuration and Monitoring	REST API, SDK (Java and Python), Syslog, SNMP, NetFlow V10, Voice Quality Monitoring, 2500+ Applications/Categories, ANPM, Application Usage, Device identification, , Live Mode, Push and Pull Zero Touch Activation
Deployment Flexibility	Eliminate Pre-stage, No CLI, Group Policies, Consolidated ICOM and End customer dashboard, Virtual CPE (x86 Ready), Multi-tenant Stateless Headend, Transport group for Business Policy Abstraction, Application aware Service Insertion OnPrem or in Cloud, RMA Workflow, Customized Application Maps
Dynamic Multipath Optimization	Application and Network Condition aware sub-second steering, Jitter/Loss Correction, Fast Intelligent Routing, Intelligent Gateway Selection, Link Aggregation, TCP Flow Optimization, Uni-Directional Link measurements, Bandwidth Detection
Multi-tenancy	Controller, Gateway, Orchestrator and Edge
Network Services	IPv4, DNS, DHCP Client, DHCP Server, DHCP relay, NAT, IPAM
QOS	Shaping, Policing, Per-flow queueing, Tunnel Shaper, Multi-Source Inbound QoS, Rate-Limiter, COS Aware, Outer/Inner DSCP Tagging, Smart Defaults, MPLS COS
Remote Troubleshooting	Live Mode, Alerts, Events, Remote Diagnostics (examples - DNS Test, Ping Test, Flush active flows, List active flows, Paths, VPN Tests, Packet capture etc), PKI Infrastructure with Certificate Management workflows, Diagnostic Bundles
Routing	OSPF, BGP, Static, Connected, ICMP Probes/Responders, Overlay Flow Control, Per-Packet Application aware steering, Route filter
SaaS/IaaS	Improved performance for cloud apps, supports well-known IaaS (e.g. AWS, Azure), Cloud Web Security (e.g. Zscaler, Websense, OpenDNS),
Security	AES256/128, SHA1/SHA2, IKEv2, VPNC Compliant IPSec, PKI, Segmentation, TLS1.2, SCEP, 802.1x, Layer 7 StateFul Firewall, 1:1 NAT, Port Forwarding, Dynamic Branch to Branch, MAC Filtering, Firewall Logs, Policy Compliance Check
VLAN Tagging	802.1Q, 802.1ad, QinQ (0x8100), QinQ (0x9100), Native
WAN Overlay Support	Public/Private/Hybrid Transport, Cloud and On-Premise

VeloCloud Edge Port Views

VeloCloud Edge 520/540

SHIPPING NOW

VeloCloud Edge 840

SHIPPING NOW

VeloCloud Edge 1000

SHIPPING NOW

For additional information about VeloCloud and how VeloCloud SD-WAN can transform your network, please contact **support@cpitelecom.net**