

Branch Expansion			
Branch Routers			
Technology	Feature Description	Compliance (yes,no,partial)	Remark
<b>L2 sw 24 port specifications</b>			
	CPU ARMv7 800 MHz		
	DRAM 512 MB		
	Flash Memory 256MB		
	Forwarding bandwidth 28Gbps		
	switching bandwidth 56 Gbps		
	Forwarding rate(64-byte L3 packets) 41.67 Mpps		
	unicast mac add 8K		
	ipv4 unicast direct routes 542		
	ipv4 unicast indirect routes 256		
	MAC security ACES 384		
	max active vlan 64		
	vlan ID 4094		
	MTU-l3 packet 9198 bytes		
	max STP Instances 64		
	maximum SPAn sessions 1		
	jumbo ethernet frame 10240 bytes		
	MTBF in hours (Data) 2412947		
	MTBF in hours (POE) 909838		
<b>Cloud based Management Security Appliance for Branches (SDWAN)</b>			
Management	Managed via the web using the dashboard		
	Single pane-of-glass into managing wired and wireless networks		
	Zero-touch remote deployment (no staging needed)		
	Automatic firmware upgrades and security patches		
	Templates based multi-network management		
	Org-level two-factor authentication and single sign-on		
	Role based administration with change logging and alerts		
Advance Security Service	Content filtering (Webroot BrightCloud CIPA compliant URL database)		
	Web search filtering (including Google / Bing SafeSearch)		
	YouTube for Schools		
	Intrusion-prevention sensor ( SNORT® based)		

	Advanced Malware Protection (AMP)		
	AMP Threat Grid2		
	Geography based firewall rules (MaxMind Geo-IP database)		
Monitoring & Reporting	Throughput, connectivity monitoring and email alerts		
	Detailed historical per-port and per-client usage statistics		
	Application usage statistics		
	Org-level change logs for compliance and change management		
	VPN tunnel and latency monitoring		
	Network asset discovery and user identification		
	Periodic emails with key utilization metrics		
	Device performance and utilization reporting		
	Netflow support		
	Syslog integration		
Remote Diagnostics	Live remote packet capture		
	Real-time diagnostic and troubleshooting tools		
	Aggregated event logs with instant search		
Network and Firewall Services	Stateful firewall, 1:1 NAT, DMZ		
	Identity-based policies		
	Auto VPN: Automated site-to-site (IPsec) VPN, for hub-and-spoke or mesh topologies		
	Client (IPsec L2TP) VPN		
	Multiple WAN IP, PPPoE, NAT		
	VLAN support and DHCP services		
	Static routing		
	User and device quarantine		
WAN Performance Management	Web caching (not available on the 64/64W and 65/65W)		
	WAN link aggregation		
	Automatic Layer 3 failover (including VPN connections)		
	3G / 4G USB modem failover		
	Application level (Layer 7) traffic analysis and shaping		
	Ability to choose WAN uplink based on traffic type		
	SD-WAN: Dual active VPN with policy based routing and dynamic path selection		
Regulatory	FCC (US)		
	CB (IEC)		
	CISPR (Australia/New Zealand)		
	• Application-aware traffic control: bandwidth policies for Layer 7 application types (e.g., block YouTube, prioritize Skype, throttle		

FEATURE-RICH UNIFIED THREAT MANAGEMENT (UTM) CAPABILITIES	BitTorrent).		
	• Content filtering: CIPA-compliant content filter, safe-search enforcement (Google/Bing), and YouTube for Schools.		
	• Intrusion prevention: PCI-compliant IPS sensor using industry-leading SNORT® signature database from Sourcefire.		
	• Advanced Malware Protection: file reputation-based protection engine powered by AMP.		
	• Identity-based security policies and application management.		
	• Unified firewall, switching, wireless LAN, and mobile device management through an intuitive web-based dashboard.		
	• Template based settings scale easily from small deployments to tens of thousands of devices.		
INDUSTRY-LEADING CLOUD MANAGEMENT	• Role-based administration, configurable email alerts for a variety of important events, and easily auditable change logs.		
	• Summary reports with user, device, and application usage details archived in the cloud.		
	Auto VPN: automatic VPN route generation using IKE/IPsec setup. Runs on physical appliances and as a virtual instance within the Amazon AWS cloud services.		
INTELLIGENT SITE-TO-SITE VPN WITH SD-WAN	• SD-WAN with active / active VPN, policy-based-routing, dynamic VPN path selection and support for application-layer performance profiles to ensure prioritization of the applications types that matter		
	• Interoperates with all IPsec VPN devices and services.		
	• Automated MPLS to VPN failover within seconds of a connection failure		
	• Client VPN: L2TP IPsec support for native Windows, Mac OS X, iPad and Android clients with no per-user licensing fees.		
Branch Gateway Services	Built-in DHCP, NAT, QoS, and VLAN management services.		
	• Web caching: accelerates frequently accessed content.		
	• Load balancing: combines multiple WAN links into a single highspeed interface, with policies for QoS, traffic shaping, and failover.		
	• Smart connection monitoring: automatic detection of layer 2 and layer 3 outages and fast failover, including 3G/4G USB modems.		
<b>Cloud based Mgmt Security appliance Hardware spec for Branches</b>			
	Recommend clients 50		
	Stateful Firewall Throughput 450 Mbps		

	advanced security throughput 300 Mbps		
	Maximum VPN Throughput 200 Mbps		
	Maximum concurrent VPN tunnels 50		
	WAN Interfaces Dedicated 1 x GbE RJ45 1 x USB (cellular failover1), 1 xGbe RJ45 dual-purpose		
	LAN Interfaces Fixed 8 x GbE 2 x GbE (SFP)		
	LAN Wifi support		
	cloud based		
	to provide subscripion lic for advance security 5yr		