WLAN Controller

WEC8500

Capacity & Performance	Maximum # of APs	Central Switching : 1,000 APs Local Switching : 3,000 APs
	Maximum # of Stations	20,000
	Packet Forwarding	20 Gbps
	APC / Cluster	6 (up to 3,000 APs)
	Maximum # of SSID	1000
	# of VLAN per SSID	50
	# of AP Group	50
	# of AP per AP Group	500
	# of VLAN per APC	1,024
	# of SSID(WLAN) per AP	16
	MAC Address	12K
	Number of IPv4 Unicast Routers	10K
	System BSSIDs	16K
	Firewall Throughput	20 Gbps
Interface, H/W	Network Interface	8 1000Base_S/LX transceiver slots(SFP) 2 10GBase_S/LR transceiver slots(SFP)
	Console Port	RS232 (RJ-45 connector)
	LED indicators	SYS, FAN , Power supply 1, Power supply 2
	From Factor	1 RU
	Hardware	• Dimensions (W x D x H) : 435 x 500 x 44 mm • Weight : 8.48 Kg (with 1 power supply), 9.46 Kg (with 2 power supplies) • Temperature : Operating temperature : 32 to 113 °F (0 to 45 °C); Storage temperature : -13 to 158 °F (-25 to 70 °C) • Humidity : Operating humidity : 10 ~ 90 % noncondensing • Input Power : 100 to 240 VAC; 50/60 Hz • Consumption Power : 168Watts
Network	IPv6	IPv6 Certification
	Routing	Static routing, OSPF v1/v2, RIP v1/v2, IGMP v1/v2
	L2 Switching	802.1D_2004, MAC bridge, 802.1s, Multiple Spanning Trees, 802.1Q Virtual LANs
	VLANs	Ethernet VLAN Tagging, 8021p/q(RFC2674), Port based VLAN, IGMP Snooping
	DHCP	Server(10,000 users), Relay
	QoS	Shaping, Policing, 802.1p, Voice Quality Monitoring (VQM), WMM, 802.1q, DSCP, SIP Session aware CAC
	System Redundancy	Active-Active, Active-Standby
	Multi – homing	3 (per AP)
Security	Rouge AP Detection	Yes
	Firewall	Stateful firewall (License required), L3/L4 Firewall
	Internal Radius Server	2,048 Users
	# of Connected External Radius Server	3
	Authentication	802.1x
	MAC Filtering, ACL	Yes
	Encryption	• WEP : RC4 40 and 104 bits • TKIP / AES • SSL : RC4, AES_128_CBC, AES_256_CBC, 3DES_CBC • DTLS : RSA_WITH_AES_128_CBC_SHA, RSA_WITH_AES_256_CBC_SHA
	AAA	Radius Server

RF Management	RRM	• Interference detection and avoidance • Coverage hole detection and correction • Transmit Power Control • Dynamic Channel Planning
	RF Spectrum Analysis	Yes
	Band-steering	Both from 5GHz to 2.4GHz and from 2.4GHz to 5GHz
Handover	L2/L3	Inter/Intra controller
MTBF(25℃)		93,338
Management	Standard	• SNMP v1, v2c, v3(except VACM) • RFC 854 Telnet • RFC 1155 Management Information for TCP/IP-based internets (Only system MIB) • RFC 1156 MIB (Only system MIB) • RFC 1213 SNMP MIB II (Only system MIB) • Private MIB (Port, Interface, Statistics information) • RFC 1350 TFTP • RFC 2616 HTTP • RFC 3164 syslog • RFC 3414 User-based Security Model (USM) for SNMPv3 • Samsung private MIBs • DHCP • SHv2 • Logging & reporting, Diagnostic
	Interface	• Web-based : HTTP/HTTPS • Command-line interface : Telnet, Secure Shell (SSH) protocol • Serial port • Wireless Enterprise WLAN Manager(WEM)
	Equipment Management	• System information : HW version, CPU, Memory, Disk Usage, FAN Rpm, System temperature • System alarm : CPU, Memory, Disk, Temperature, FAN • Alarm Threshold configuration : CPU Load, Memory Utilization
	Alarm / Event Management	External Syslog server support Critical / Major / Minor Alarm setup support
Regulatory Compliance		• KC type approval • UL 60950-1 • EN 60950-1 • FCC part 15 class A • EN 55022 / EN 55024
Standard & Compatibility	AP – APC Link	CAPWAP Tunneling(RFC5415, RFC5416), DTLS encryption(RFC4347)
	WiFi	802.11a/b/g/n/ac, 802.11d, 802.11h, OKC (opportunistic key caching), 802.11e, 802.11i
	Captive Portal	Yes
	IP Application	DHCP Server/relay, SSH, FTP, HTTP (s), NTP Server/Client, CLI (Command Line Interface), GUI Management (WEC), Ping, Traceroute, Packet Capture (Wireless)

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