

WLAN Controller

WEC8500



Capacity & Performance	Maximum # of APs	500
	Maximum # of Stations	10,000
	Packet Forwarding	20 Gbps
	Central Switching / Local Switching	Yes (Central / Local = 1,000APs / 3,000APs)
	APC / Cluster	6 (up to 3,000 APs)
	Maximum # of SSID	240
	# 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
Interface, H/W	System BSSIDs	16K
	Firewall Throughput	20 Gbps
	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
Hardware	Form Factor	1 RU
		- 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	Rogue AP Detection & Prevention	Yes (Prevention is planned in V2.0)
	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
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
Regulatory Compliance	Alarm / Event Management	External Syslog server support Critical / Major / Minor Alarm setup support
		- 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	802.11d, 802.11h, OKC(opportunistic key caching), 802.11e, 802.11i
Service	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)