



## Samsung Access Point Controller WEC8500 and WEC8050 Specification

### WEC8500

- High-performance WLAN controller for mission-critical wireless networking
- SON (Self organizing network) for auto cell optimization technology in voice & data environment
- Control of up to 500 access points
- Cluster up to 12 controllers
- 8 x 1G SFP ports, 2 X 10G SFP ports
- High availability with redundant systems and power supplies
- Seamless handover by AirMove with LTE Technology



### WEC8050

- High-performance WLAN controller for mission-critical wireless networking
- SON (Self organizing network) for auto cell optimization technology in voice & data environment
- Control of up to 75 access points
- Cluster up to 2 controllers
- 4 10/100/1000 Base-T ports
- High availability with redundant systems and power supplies
- Seamless handover by AirMove with LTE Technology



		WEC8050	WEC8500
<b>Capacity &amp; Performance</b>	Maximum # of APs	75	500
	Maximum # of Stations	1,500	10K
	MAC Address	12K	12K
	Number of IPv4 Unicast Routes	10K routing entries	10K routing entries
	System BSSIDs	2,400	16K
	Firewall Throughput	1.5 Gbps	20 Gbps
	Encrypted Throughput (AES)	700 Mbps	10 Gbps
<b>H/W, Interface</b>	Network Interfaces and Indicators	4 x 10/100/1000Mbps Ethernet Port	8 1000Base_S/LX transceiver slots(SFP) 2 10GBase_S/LR transceiver slots(SFP)



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H/W, Interface	Dimension	<ul style="list-style-type: none"> <li>• Dimensions (W x D x H) : 290 x 280 x 44 mm</li> <li>• Weight : 2.34 Kg</li> <li>• Operating temperature : 32 to 113 °F (0 to 45 °C);</li> <li>• Storage temperature : -13 to 158 °F (-25 to 70 °C</li> <li>• Operating Humidity : 10 ~ 90 % non-condensing</li> <li>• Input power : 100 to 240 VAC; 50/60 Hz</li> </ul>	<ul style="list-style-type: none"> <li>• Dimensions (W x D x H): 435 X 500 X 44 mm</li> <li>• Weight: 8.48Kg with one power supply, 9.46 with two power supplies</li> <li>• Operating temperature : 32 to 113 °F (0 to 45 °C);</li> <li>• Storage temperature : -13 to 158 °F (-25 to 70 °C</li> <li>• Operating Humidity : 10 ~ 90 % non-condensing</li> <li>• Input power : 100 to 240 VAC; 50/60 Hz</li> </ul>
	Form Factor	1 RU	1 RU
Network	Routing	OSPF v1/v2, IGMP v1/v2/v3, PIM-SM	Static routing, OSPF v1/v2, RIP v1/v2, IGMP v1/v2
	VLANs	Ethernet VLAN Tagging, 8021p/q (RFC2674), Port based VLAN IGMP Snooping	Ethernet VLAN Tagging, 8021p/q (RFC2674), Port based VLAN IGMP Snooping
	DHCP	Server(1,500 users), Relay	Server(10,000 users), Relay
	QoS	Shaping, Policing, 802.1p, Voice Quality Monitoring (VQM) WMM, 802.1q, DSCP SIP Session aware CAC	Shaping, Policing, 802.1p, Voice Quality Monitoring (VQM) WMM, 802.1q, DSCP SIP Session aware CAC
	System Redundancy	Active-Active, Active-Standby	Active-Active, Active-Standby
	Rogue AP Detection	Yes	Yes
Security	Firewall	Stateful firewall (License required), L3/L4 Firewall	Stateful firewall (License required), L3/L4 Firewall
	Authentication	802.1x	802.1x
	MAC Filtering, ACL	Yes	Yes
	Encryption	<ul style="list-style-type: none"> <li>• WEP : RC4, 40 and 104 bits</li> <li>• TKIP / AES</li> <li>• SSL : RC4, AES_128_CBC, AES_256_CBC, 3DES_CBC</li> <li>• DTLS : RSA_WITH_AES_128_CBC_SHA, RSA_WITH_AES_256_CBC_SHA</li> </ul>	<ul style="list-style-type: none"> <li>• WEP : RC4,40 and 104 bits</li> <li>• TKIP / AES</li> <li>• SSL : RC4, AES_128_CBC, AES_256_CBC, 3DES_CBC</li> <li>• DTLS : RSA_WITH_AES_128_CBC_SHA, RSA_WITH_AES_256_CBC_SHA</li> </ul>
	AAA	Radius Server	Radius Server



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RF Management	RF Spectrum Analysis	Yes	Yes
Handover	L2/L3	Inter/Intra controller	Inter/Intra controller
Management	Standard	<ul style="list-style-type: none"> <li>• SNMP v1, v2c, v3(except VACM)</li> <li>• RFC 854 Telnet</li> <li>• RFC 1155 Management Information for TCP/IP-based internets (Only system MIB)</li> <li>• RFC 1156 MIB (Only system MIB)</li> <li>• RFC 1213 SNMP MIB II (Only system MIB)</li> <li>• Private MIB (Port, Interface, Statistics information)</li> <li>• RFC 1350 TFTP</li> <li>• RFC 2616 HTTP</li> <li>• RFC 3164 syslog</li> <li>• RFC 3414 User-based Security Model (USM) for SNMPv3</li> <li>• Samsung private MIBs</li> <li>• DHCP</li> <li>• SHv2</li> <li>• Logging &amp; reporting, Diagnostic</li> </ul>	<ul style="list-style-type: none"> <li>• SNMP v1, v2c, v3(except VACM)</li> <li>• RFC 854 Telnet</li> <li>• RFC 1155 Management Information for TCP/IP-based internets (Only system MIB)</li> <li>• RFC 1156 MIB (Only system MIB)</li> <li>• RFC 1213 SNMP MIB II (Only system MIB)</li> <li>• Private MIB (Port, Interface, Statistics information)</li> <li>• RFC 1350 TFTP</li> <li>• RFC 2616 HTTP</li> <li>• RFC 3164 syslog</li> <li>• RFC 3414 User-based Security Model (USM) for SNMPv3</li> <li>• Samsung private MIBs</li> <li>• DHCP</li> <li>• SHv2</li> <li>• Logging &amp; reporting, Diagnostic</li> </ul>
	Interfaces	<ul style="list-style-type: none"> <li>• Web-based : HTTP/HTTPS</li> <li>• Command-line interface : Telnet, Secure Shell (SSH) protocol</li> <li>• Serial port</li> <li>• Wireless Enterprise WLAN Manager (WEM)</li> </ul>	<ul style="list-style-type: none"> <li>• Web-based : HTTP/HTTPS</li> <li>• Command-line interface : Telnet, Secure Shell (SSH) protocol</li> <li>• Serial port</li> <li>• Wireless Enterprise WLAN Manager (WEM)</li> </ul>