

# Samsung Access Points

## 11n Access Points – WEA300 Series

The Samsung Access Points WEA300 series are compact and powerful access points with multiple spatial streams 802.11n that deliver data rates of 300/450 Mbps and ensure ultimate coverage, easy management and a secure wireless network.



MODEL		WEA302i	WEA303i	WEA303e
Wireless	Standard	802.11a/b/g/n		
	# of Radio	Dual Concurrent Radio		
	Frequency	2.4 GHz, 5 GHz		
	Antennas	Internal Type		External Type
	MIMO	2 x 2 MIMO, 2 Spatial Streams	3 x 3 MIMO, 3 Spatial Streams	
	PHY rate	300 Mbps	450 Mbps	
H/W	Network I/F	1 x 1 GE, 1 Console		
	PoE	802.3af/802.3at		
	Environment Class	Indoor		
Dimension	Diameter/Height	174 mm/34.1 mm		
	Weight	560 g	640 g	
Security	Standard	802.11i, WPA/WPA2		
	Multi SSID	Maximum 16		
	# of Multi VLAN over SSID	Maximum 1,024		
	Encryption	DTLS		
QoS	Standard	802.11e		
	VMM	Yes		
Management	Operation	Controller Based		
Certification	WiFi Certified	WPA/WPA2, WMM, WMM-PS		
	KC	Yes		

For more information, please visit: [www.samcom.com.au](http://www.samcom.com.au)

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# Samsung Access Points

## 11n Access Point | WEA302i ADDITIONAL INFORMATION | DATASHEET 1/6

Radio Specifications	802.11a/b/g/n, Dual concurrent radio 2 x 2 MIMO, 2 spatial streams PHY data rates up to 300 Mbps Dynamic frequency selection (DFS) 802.11n high throughput (HT20/40)		
Supported Wireless LAN Controller	WEC8000 Series		
RF Monitoring	Dedicated RF and security monitoring module in AP		
Data Rates	802.11a : 6, 9, 12, 18, 24, 36, 48, and 54 Mbps 802.11g : 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11n : MCS 0 to MCS 15 (6.5 Mbps ~ 300 Mbps)		
Frequency Band	802.11b/g/n : 2.412 GHz ~ 2.472 GHz 13 CH 802.11a/n : 5.180 GHz ~ 5.825 GHz 24 CH *Available channel is compliant with local domain regulatory		
Maximum Transmit Power	20 dBm @ 2 streams (3 ~ 20 dBm) *The maximum transmit power will vary by channel and according to individual country regulation		
Receive Sensitivity	802.11n MCS Index	2.4 GHz	5 GHz
		HT20	HT20 HT40
	MCS 0	-96	-96 -93
	MCS 1	-96	-96 -91
	MCS 2	-94	-93 -89
	MCS 3	-90	-89 -85
	MCS 4	-87	-86 -82
	MCS 5	-83	-82 -78
	MCS 6	-81	-80 -77
	MCS 7	-80	-78 -75
	MCS 8	-95	-95 -91
	MCS 9	-92	-91 -88
	MCS 10	-90	-89 -86
	MCS 11	-87	-86 -82
	MCS 12	-83	-83 -79
	MCS 13	-78	-78 -74
	MCS 14	-77	-76 -73
	MCS 15	-75	-75 -72
	802.11 b		
	1 Mbps	-104	
	11 Mbps	-94	
	802.11 a/g		
	6 Mbps	-96	-95
	54 Mbps	-82	-81
*Maximum capability of the hardware provided			

# Samsung Access Points

## 11n Access Point | WEA302i ADDITIONAL INFORMATION | DATASHEET 2/6

Integrated Antenna	Intelligent Beam Selectable Antenna (IBSA) 2.4 GHz : 4 dBi 5 GHz : 5.5 dBi
Interfaces	10/100/1000 BASE-T ethernet autosensing (RJ-45) Management console port (RJ-45)
Environmental	Storage temperature : -20 ~ 70°C Operating temperature : 0 ~ 45°C Operating humidity : 5 ~ 95% (noncondensing)
Input Power Requirements	IEEE 802.3af PoE : 44 to 57 VDC
Powering Options	Local power supply : 100 to 250 VAC, 50/60 Hz
Power Draw	10.55 W
Compliance Standards	<ul style="list-style-type: none"><li>• <b>Safety</b> UL 60950-1 UL 2043 IEC 60950-1 EN 60950-1  EMI and susceptibility (Class B) FCC Part 15.107 and 15.109 EN 301 489-1 and -17 (Europe)</li><li>• <b>Radio approvals</b> FCC Part 15.247, 15.407 EN 300 328, EN 301 893 (Europe)</li><li>• <b>EAP type(s)</b> Extensible Authentication Protocol-Transport Layer Security (EAP-TLS) EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2) Protected EAP (PEAP) v0 or EAP-MSCHAPv2 Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST) PEAPv1 or EAP-Generic Token Card (GTC) EAP-Subscriber Identity Module (SIM) Multimedia : Wi-Fi Multimedia (WMM) WMM-PS</li></ul>

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# Samsung Access Points

## 11n Access Point | WEA303e ADDITIONAL INFORMATION | DATASHEET 3/6

Radio Specifications	802.11a/b/g/n, Dual concurrent radio   3 x 3 MIMO, 3 spatial streams   PHY data rates up to 450 Mbps Dynamic frequency selection (DFS)   802.11n high throughput (HT20/40)		
Supported Wireless LAN Controller	WEC8000 Series		
RF Monitoring	Dedicated RF and security monitoring module in AP		
Data Rates	802.11a : 6, 9, 12, 18, 24, 36, 48, and 54 Mbps   802.11g : 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11n : MCS 0 to MCS 23 (6.5 Mbps ~ 450 Mbps)		
Frequency Band	802.11b/g/n : 2.412 GHz ~ 2.472 GHz 13 CH   802.11a/n : 5.180GHz ~ 5.825 GHz 24 CH *Available channel is compliant with local domain regulatory		
Maximum Transmit Power	23 dBm @ 3 streams (5 ~ 23 dBm) *The maximum transmit power will vary by channel and according to individual country regulation		
Receive Sensitivity	802.11n MCS Index	2.4 GHz HT20	5 GHz HT20 HT40
	MCS 0	-97	-96 -92
	MCS 1	-96	-95 -92
	MCS 2	-94	-94 -90
	MCS 3	-90	-89 -86
	MCS 4	-87	-86 -83
	MCS 5	-83	-82 -79
	MCS 6	-81	-80 -77
	MCS 7	-80	-79 -76
	MCS 8	-96	-95 -91
	MCS 9	-93	-91 -88
	MCS 10	-91	-89 -86
	MCS 11	-88	-85 -82
	MCS 12	-85	-82 -79
	MCS 13	-80	-77 -74
	MCS 14	-79	-76 -72
	MCS 15	-78	-74 -71
	MCS16	-95	-95 -91
	MCS17	-92	-91 -88
	MCS18	-89	-88 -86
	MCS19	-86	-84 -83
	MCS20	-82	-81 -79
	MCS21	-78	-77 -75
	MCS22	-77	-74 -72
	MCS23	-75	-73 -71
	802.11 b		
	1 Mbps	-103	
	11 Mbps	-93	
	802.11 a/g		
	6 Mbps	-97	-96
	54 Mbps	-83	-82
	*Maximum capability of the hardware provided		

# Samsung Access Points

## 11n Access Point | WEA303e ADDITIONAL INFORMATION | DATASHEET 4/6

External Antenna (Sold Separately)	WDS-ANTD2D: Omni Directional: 2dBi @2.4GHz/ 4dBi @5GHz WDS-ANTD4D: Omni Directional: 4dbi @2.4GHz/ 5.5dBi @5GHz
Interfaces	10/100/1000BASE-T ethernet autosensing (RJ-45) Management console port (RJ-45)
Environmental	Storage temperature : -20 ~ 70°C Operating temperature : 0 ~ 45°C Operating humidity : 5 ~ 95% (noncondensing)
Input Power Requirements	IEEE 802.3af PoE : 44 to 57 VDC
Powering Options	Local power supply : 100 to 250 VAC, 50/60 Hz
Power Draw	11.5 W
Compliance Standards	<ul style="list-style-type: none"> <li>• <b>Safety</b> UL 60950-1 UL 2043 IEC 60950-1 EN 60950-1 EMI and susceptibility (Class B) FCC Part 15.107 and 15.109 EN 301 489-1 and -17 (Europe)</li> <li>• <b>Radio approvals</b> FCC Part 15.247, 15.407 EN 300 328, EN 301 893 (Europe)</li> <li>• <b>EAP type(s)</b> Extensible Authentication Protocol-Transport Layer Security (EAP-TLS) EAP-Tunneled TLS (TTLS) or Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2) Protected EAP (PEAP) v0 or EAP-MSCHAPv2 Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST) PEAPv1 or EAP-Generic Token Card (GTC) EAP-Subscriber Identity Module (SIM) Multimedia : Wi-Fi Multimedia (WMM) WMM-PS</li> </ul>

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## 11n Access Point | WEA303i ADDITIONAL INFORMATION | DATASHEET 5/6

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	MCS 4	-87	-86 -83
	MCS 5	-83	-82 -79
	MCS 6	-81	-80 -77
	MCS 7	-80	-79 -76
	MCS 8	-96	-95 -91
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	MCS 10	-91	-89 -86
	MCS 11	-88	-85 -82
	MCS 12	-85	-82 -79
	MCS 13	-80	-77 -74
	MCS 14	-79	-76 -72
	MCS 15	-78	-74 -71
	MCS16	-95	-95 -91
	MCS17	-92	-91 -88
	MCS18	-89	-88 -86
	MCS19	-86	-84 -83
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