

# Access Point

## WEA463e



Radio Specifications	IEEE 802.11a/b/g/n/ac Dual concurrent radio 3X3 MIMO, 3 spatial streams PHY data rates up to 1.3 Gbps (5 GHz) IEEE 802.11n high throughput (HT20/40) IEEE 802.11ac very high throughput (VHT20/40/80) Dynamic frequency selection (DFS)
Operation Mode	Controller-based Mode, Standalone Mode, Mesh Mode
Supported Wireless LAN Controller	WEC8500 Series / WEC8050 Series
Data Rates	IEEE 802.11b: 1, 2, 5.5 and 11 Mbps IEEE 802.11a/g: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps IEEE 802.11n: MCS 0 to MCS 23 (6.5 Mbps to 450 Mbps) IEEE 802.11ac: MCS 0 to MCS 9 (6.5 Mbps to 1.3 Gbps, NSS 1 to 3)
Frequency	IEEE 802.11b/g/n: 2.412 GHz to 2.472 GHz 13 CH IEEE 802.11a/n/ac: 5.180 GHz to 5.825 GHz 25 CH * Available Channels are Compliant with local regulations
Maximum Transmit Power	28 dBm with 3 streams (23 dBm/Path) * The maximum transmission power will vary by channel and according to individual regulations
External Antenna (Sold Separately)	Dual Band: Omni-Directional Antenna 2.4 GHz 5 dBi / 5 GHz 8 dBi Single Band: Directional Antenna 2.4 GHz 12 dBi Single Band: Directional Antenna 5 GHz 12 dBi
Interfaces	Two 10/100/1000BASE-T Ethernet Autosensing (RJ-45) One Management Console Port (RJ-45)
Indicators	One LED indicates AP status (booting, provisioning, service, upgrade, fault) One LED indicates RSSI level of backhaul frequency
Dimensions (W x L x H)	267 mm X 184 mm X 58 mm
Weight / Volume	2.8 kg / 2.8 L
Environmental	Storage Temperature: - 40 to 70 °C Operating Temperature: - 40 to 55 °C Operating Humidity: 5 to 100% (non condensing)
Environmental Class	IP66 & IP67
Input Power Requirements	IEEE 802.3at PoE: 50 to 57 VDC
Powering Options (Sold Separately)	Local Power Supply: AC/DC power adapter (AC 100 to 240 V, 1 A, 50/60 Hz, Output 48 V)
Power Draw	< 25.5 W
Compliance Standards	<ul style="list-style-type: none"> <li>• Safety                             <ul style="list-style-type: none"> <li>IEC 60950-1</li> <li>EN 60950-1</li> <li>UL 60950-1</li> <li>CAN/CSA-C22.2 No. 60950-1</li> </ul> </li> <li>• Radio Approvals                             <ul style="list-style-type: none"> <li>FCC Part 15.247, 15.407</li> <li>FCC Part 15.107 and 15.109</li> <li>RSS-210</li> <li>ICES-003</li> <li>EN 300 328, EN 301 893</li> <li>EN 301 489-1 and -17</li> <li>KN 301 489-1/KN 301 489-17 (Korea)</li> <li>Radio Equipment Specifications (Korea)</li> <li>EMI and susceptibility (Class B)</li> </ul> </li> </ul>
Part Numbers	WDS-A463E/KOR WDS-A463E/XAR (US & CANADA) WDS-A463E/EUS (EU)

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Receive Sensitivity

Standard	Modulation	Data Rate			1			6			11		
		Mbps	RX0	RX1	RX2	RX0	RX1	RX2	RX0	RX1	RX2		
11b	DSSS	1	-97	-97	-97	-97	-97	-97	-97	-97	-97		
	CCK	11	-89	-89	-89	-89	-89	-89	-89	-89	-88		
11a/g	OFDM	6	-93	-93	-93	-93	-93	-93	-93	-93	-93		
	OFDM	9	-91	-91	-91	-92	-92	-91	-92	-91	-91		
	OFDM	12	-90	-90	-90	-90	-90	-90	-90	-90	-90		
	OFDM	18	-87	-87	-88	-88	-88	-87	-88	-87	-87		
	OFDM	24	-84	-84	-84	-84	-84	-84	-84	-84	-84		
	OFDM	36	-81	-81	-81	-81	-81	-81	-81	-81	-81		
	OFDM	48	-76	-76	-77	-77	-77	-76	-77	-76	-76		
	OFDM	54	-75	-75	-75	-75	-75	-75	-75	-75	-75		
HT20S1	MCS0	6.5	-92	-92	-92	-92	-92	-92	-92	-92	-92		
	MCS1	13	-88	-88	-88	-88	-88	-88	-88	-88	-88		
	MCS2	19.5	-86	-86	-86	-86	-86	-86	-86	-86	-86		
	MCS3	26	-82	-82	-83	-83	-83	-82	-83	-82	-82		
	MCS4	39	-79	-79	-79	-79	-79	-79	-79	-79	-79		
	MCS5	52	-75	-75	-75	-75	-75	-75	-75	-75	-75		
	MCS6	58.5	-73	-73	-73	-73	-74	-73	-74	-73	-73		
	MCS7	65	-72	-72	-72	-72	-72	-72	-72	-72	-72		
HT20S2	MCS8	13	-89			-89		-89		-89			
	MCS9	26	-85			-86		-86		-86			
	MCS10	39	-83			-83		-83		-83			
	MCS11	52	-80			-80		-80		-80			
	MCS12	78	-76			-77		-76		-76			
	MCS13	104	-72			-72		-72		-72			
	MCS14	117	-70			-71		-71		-71			
	MCS15	130	-69			-69		-69		-69			
HT20S3	MCS16	19.5	-87			-87		-87		-87			
	MCS17	39	-84			-84		-84		-84			
	MCS18	58.5	-82			-82		-82		-82			
	MCS19	78	-78			-79		-78		-78			
	MCS20	117	-75			-75		-75		-75			
	MCS21	156	-71			-71		-71		-71			
	MCS22	175.5	-69			-69		-69		-69			
	MCS23	195	-68			-68		-68		-68			
Standard	Modulation	Data Rate			36			100			161		
		Mbps	RX0	RX1	RX2	RX0	RX1	RX2	RX0	RX1	RX2		
11a/g	OFDM	6	-94	-93	-93	-94	-93	-93	-93	-93	-93		
	OFDM	9	-92	-92	-92	-92	-92	-92	-91	-91	-90		
	OFDM	12	-90	-90	-90	-90	-90	-90	-87	-90	-90		
	OFDM	18	-88	-88	-88	-88	-88	-88	-84	-87	-86		
	OFDM	24	-84	-84	-84	-84	-84	-84	-81	-84	-84		
	OFDM	36	-81	-81	-81	-81	-81	-81	-78	-81	-81		
	OFDM	48	-77	-77	-77	-77	-77	-76	-76	-76	-76		
	OFDM	54	-75	-75	-75	-75	-75	-75	-74	-74	-74		
HT20S1	MCS0	6.5	-93	-93	-92	-93	-93	-93	-90	-92	-92		
	MCS1	13	-89	-89	-88	-89	-89	-88	-88	-88	-88		
	MCS2	19.5	-86	-86	-86	-86	-86	-86	-85	-86	-86		
	MCS3	26	-83	-83	-83	-83	-83	-83	-81	-82	-82		
	MCS4	39	-80	-80	-79	-80	-80	-80	-79	-79	-79		
	MCS5	52	-76	-75	-75	-75	-75	-75	-74	-75	-75		
	MCS6	58.5	-74	-74	-74	-74	-73	-74	-73	-73	-73		
	MCS7	65	-72	-72	-72	-72	-72	-72	-71	-71	-71		
HT20S2	MCS8	13	-89			-89		-89		-87			
	MCS9	26	-86			-86		-86		-85			
	MCS10	39	-83			-84		-84		-81			
	MCS11	52	-80			-80		-80		-78			
	MCS12	78	-77			-77		-77		-74			
	MCS13	104	-72			-72		-72		-70			
	MCS14	117	-70			-71		-71		-68			
	MCS15	130	-69			-69		-69		-66			

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Standard	Modulation	Data Rate			36			100			161		
		Mbps	RX0	RX1	RX2	RX0	RX1	RX2	RX0	RX1	RX2		
HT20S3	MCS16	19.5		-88				-88				-85	
	MCS17	39		-84				-85				-83	
	MCS18	58.5		-82				-82				-79	
	MCS19	78		-79				-79				-77	
	MCS20	117		-75				-75				-72	
	MCS21	156		-71				-71				-69	
	MCS22	175.5		-69				-69				-68	
HT40S1	MCS23	195		-68				-68				-65	
	MCS0	13.5	-89	-89	-89	-90	-89	-89	-88	-89	-89	-89	
	MCS1	27	-86	-86	-86	-86	-86	-86	-86	-85	-85	-85	
	MCS2	40.5	-84	-84	-83	-83	-83	-83	-83	-82	-83	-83	
	MCS3	54	-80	-80	-80	-80	-80	-80	-80	-79	-80	-80	
	MCS4	81	-77	-77	-77	-77	-77	-77	-77	-76	-76	-76	
	MCS5	108	-73	-73	-73	-72	-73	-72	-72	-72	-72	-72	
HT40S2	MCS6	121.5	-71	-71	-71	-71	-71	-71	-71	-70	-70	-71	
	MCS7	135	-69	-69	-69	-69	-69	-69	-69	-69	-69	-69	
	MCS8	27		-86				-86				-85	
	MCS9	54		-83				-83				-82	
	MCS10	81		-80				-80				-79	
	MCS11	108		-77				-77				-76	
	MCS12	162		-73				-74				-73	
HT40S3	MCS13	216		-69				-69				-68	
	MCS14	243		-67				-68				-67	
	MCS15	270		-66				-66				-65	
	MCS16	40.5		-84				-84				-83	
	MCS17	81		-81				-81				-80	
	MCS18	121.5		-78				-79				-78	
	MCS19	162		-75				-75				-75	
VHT20S1	MCS20	243		-72				-72				-71	
	MCS21	324		-67				-68				-67	
	MCS22	364.5		-67				-66				-66	
	MCS23	405		-65				-62				-64	
	MCS0NSS1	6.5	-92	-92	-92	-92	-92	-92	-90	-91	-91	-91	
	MCS1NSS1	13	-88	-88	-88	-88	-88	-88	-88	-88	-88	-88	
	MCS3NSS1	19.5	-86	-86	-86	-86	-86	-86	-85	-86	-85	-85	
VHT20S2	MCS4NSS1	26	-83	-83	-83	-83	-83	-83	-81	-82	-82	-82	
	MCS5NSS1	39	-80	-79	-79	-80	-79	-79	-78	-79	-79	-79	
	MCS6NSS1	52	-75	-75	-75	-75	-75	-75	-74	-74	-75	-75	
	MCS7NSS1	58.5	-73	-73	-73	-73	-73	-74	-73	-73	-73	-73	
	MCS8NSS1	65	-72	-72	-72	-72	-72	-72	-70	-71	-71	-71	
	MCS0NSS2	13		-89				-89				-88	
	MCS1NSS2	26		-86				-86				-85	
VHT20S3	MCS2NSS2	39		-83				-84				-81	
	MCS3NSS2	52		-80				-80				-78	
	MCS4NSS2	78		-77				-77				-76	
	MCS5NSS2	104		-72				-72				-70	
	MCS6NSS2	117		-71				-71				-69	
	MCS7NSS2	130		-69				-69				-68	
	MCS8NSS2	156		-64				-64				-63	
VHT20S3	MCS0NSS3	19.5		-88				-88				-86	
	MCS1NSS3	39		-85				-85				-84	
	MCS2NSS3	58.5		-82				-82				-80	
	MCS3NSS3	78		-79				-79				-78	
	MCS4NSS3	117		-76				-75				-74	
	MCS5NSS3	156		-71				-71				-69	
	MCS6NSS3	175.5		-69				-69				-67	
MCS7NSS3	195		-68				-67				-67		
MCS8NSS3	234		-62				-61				-60		

Receive Sensitivity

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Receive Sensitivity

Standard	Modulation	Data Rate			36			100			161		
		Mbps	RX0	RX1	RX2	RX0	RX1	RX2	RX0	RX1	RX2		
VHT40S1	MCS0NSS1	13.5	-89	-89	-89	-89	-89	-89	-88	-89	-88		
	MCS1NSS1	27	-85	-86	-85	-86	-86	-85	-84	-85	-85		
	MCS2NSS1	40.5	-83	-83	-83	-83	-83	-83	-82	-83	-83		
	MCS3NSS1	54	-80	-80	-80	-80	-80	-80	-79	-79	-80		
	MCS4NSS1	81	-77	-77	-77	-77	-77	-76	-75	-76	-76		
	MCS5NSS1	108	-71	-72	-72	-72	-72	-72	-71	-72	-72		
	MCS6NSS1	121.58	-71	-71	-71	-71	-71	-70	-69	-70	-70		
	MCS7NSS1	135	-68	-69	-69	-69	-69	-69	-67	-69	-69		
	MCS8NSS1	162	-65	-65	-65	-65	-65	-64	-63	-64	-64		
MCS9NSS1	180	-64	-63	-63	-63	-63	-63	-61	-61	-61			
VHT40S2	MCS0NSS2	27	-86				-86		-85				
	MCS1NSS2	54	-82				-82		-82				
	MCS2NSS2	81	-79				-80		-79				
	MCS3NSS2	108	-76				-76		-76				
	MCS4NSS2	162	-73				-73		-72				
	MCS5NSS2	216	-69				-69		-68				
	MCS6NSS2	243	-67				-67		-66				
	MCS7NSS2	270	-66				-66		-65				
	MCS8NSS2	324	-61				-61		-60				
MCS9NSS2	360	-59				-59		-58					
VHT40S3	MCS0NSS3	40.5	-84				-84		-84				
	MCS1NSS3	81	-81				-81		-80				
	MCS2NSS3	121.58	-79				-78		-78				
	MCS3NSS3	162	-75				-75		-74				
	MCS4NSS3	243	-72				-70		-71				
	MCS5NSS3	324	-68				-6		-67				
	MCS6NSS3	364.5	-66				-66		-65				
	MCS7NSS3	405	-64				-65		-64				
	MCS8NSS3	486	-59				-57		-56				
MCS9NSS3	540	-58				-58		-56					
VHT80S1	MCS0NSS1	29.3	-85	-86	-86	-86	-86	-86	-85	-85	-85		
	MCS1NSS1	58.5	-82	-82	-82	-82	-82	-82	-81	-81	-81		
	MCS2NSS1	87.8	-79	-80	-80	-80	-80	-80	-78	-79	-79		
	MCS3NSS1	117	-76	-76	-76	-76	-76	-76	-75	-76	-76		
	MCS4NSS1	175.5	-73	-73	-73	-73	-73	-73	-72	-72	-73		
	MCS5NSS1	234	-68	-69	-69	-69	-68	-68	-68	-68	-68		
	MCS6NSS1	263.3	-67	-67	-67	-67	-67	-67	-66	-67	-67		
	MCS7NSS1	292.5	-66	-66	-66	-66	-66	-66	-65	-66	-66		
	MCS8NSS1	351	-62	-61	-62	-62	-62	-61	-61	-61	-61		
MCS9NSS1	390	-60	-60	-60	-60	-60	-60	-59	-59	-59			
VHT80S2	MCS0NSS2	58.5	-82				-82		-81				
	MCS1NSS2	117	-79				-79		-78				
	MCS2NSS2	175.5	-76				-76		-75				
	MCS3NSS2	234	-73				-73		-72				
	MCS4NSS2	351	-70				-70		-69				
	MCS5NSS2	468	-66				-66		-65				
	MCS6NSS2	526.5	-64				-64		-63				
	MCS7NSS2	585	-63				-63		-62				
	MCS8NSS2	702	-58				-58		-57				
MCS9NSS2	780	-56				-56		-56					
VHT80S3	MCS0NSS3	87.8	-81				-81		-79				
	MCS1NSS3	175.5	-78				-77		-77				
	MCS2NSS3	263.3	-75				-75		-74				
	MCS3NSS3	351	-72				-72		-71				
	MCS4NSS3	526.5	-68				-68		-67				
	MCS5NSS3	702	-64				-64		-63				
	MCS7NSS3	877.5	-62				-62		-61				
	MCS8NSS3	1053	-57				-57		-56				
	MCS9NSS3	1170	-56				-55		-54				

\* The sensitivity is measured at the LGI(Long Guard Interval) mode