

AP 120 & AP320 Technical Specifications



IEEE 802.11b/g/n				
Frequency Band	Scanning		Transmission	
	All regions		USA & Canada (FCC/IC)	Europe (ETSI)
	2400 ~ 2483.5 MHz		2400 ~ 2473.5 MHz	2400 ~ 2483.5 MHz
Modulation Type	DSSS, OFDM			
Data Rates	Up to 450 Mbps (MCS 0-23) with automatic rate adaptation			
Antenna	Integrated modular high efficiency PIFA omnidirectional antenna			

IEEE 802.11a/n/ac				
Frequency Band	Scanning		Transmission	
	All regions		USA & Canada (FCC/IC)	Europe (ETSI)
	4.92 ~ 5.08 GHz 5.15 ~ 5.25 GHz 5.25 ~ 5.35 GHz 5.47 ~ 5.725 GHz 5.725 ~ 5.825 GHz		5.15 ~ 5.25 GHz 5.25 ~ 5.35 GHz 5.725 ~ 5.825 GHz	5.15 ~ 5.25 GHz 5.25 ~ 5.35 GHz 5.47 ~ 5.725 GHz
Dynamic Frequency Selection	DFS and DFS2			
Modulation Type	OFDM			
Data Rates	AP120 Up to 866 Mbps (MCS 0-9) for 11ac with automatic rate adaptation Up to 300 Mbps (MCS 0-23) for 11n with automatic rate adaptation		AP320 Up to 1.3 Gbps (MCS 0-9) for 11ac with automatic rate adaptation Up to 450 Mbps (MCS 0-23) for 11n with automatic rate adaptation	
Antenna	Integrated modular high efficiency PIFA omnidirectional antenna			

Maximum Transmit Power for 5 GHz

AP 120		AP 320	
MCS Index	Transmit Power(dBm)	MCS Index	Transmit Power(dBm)
802.11a (legacy)		802.11a (legacy)	
6Mbps - 24Mbps	20	6Mbps	18
36Mbps	20	36Mbps	18
48Mbps	18	48Mbps	18
54Mbps	17	54Mbps	17
802.11n HT20 (legacy)		802.11n HT20 (legacy)	
MCS 0,1,2,3,4	20	MCS 0,1,2,3,4,8,9,10,11,12,16,17,18,19,20	18
MCS 5,6,7	17	MCS 5,13,21	18
MCS 8	15	MCS 6,14,22	18
		MCS 7,15,23	17
802.11n HT40		802.11n HT40	
MCS 0,1,2,3,4	20	MCS 0,1,2,3,4,8,9,10,11,12,16,17,18,19,20	18
MCS 5,6,7	17	MCS 5,13,21	18
MCS 8,9	15	MCS 6,14,22	18
		MCS 7,15,23	17
802.11ac 256QAM VHT80		802.11ac 256QAM VHT80	
MCS 0,1,2,3,4	20	3/4 Code Rate	15
MCS 5,6,7	17	5/6 Code Rate	14
MCS 8,9	15		

Maximum Transmit Power for 2.4 GHz

AP 120		AP 320	
MCS Index	Transmit Power(dBm)	MCS Index	Transmit Power(dBm)
802.11b (legacy)		802.11a (legacy)	
1Mbps - 11Mbps	20	6Mbps	20
802.11g (legacy)		54Mbps	
6Mbps - 24Mbps	20	802.11n HT20 (legacy)	
36Mbps	20	MCS 0/8/16	20
48Mbps	20	MCS 7/15	18
54Mbps	20	MCS 23	17
802.11n HT20 (legacy)		802.11n HT40	
MCS	20	MCS 0/8/16	20
		MCS 7/15	17
MCS 6,7,14,15	18	MCS 23	16
802.11n HT40			
MCS	20		
MCS 6,7,14,15	18		

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MCS Index	Receive Sensitivity 5 GHz	
	AP120	AP 320
802.11a (legacy)		
64Mbps	-89	-90
36Mbps	-	-77
48Mbps	-	-74
54Mbps	-72	-72
802.11n HT20 (legacy)		
MCS 0/8	-89	-
MCS 0,1,2,3,4,8,9,10,11,12,16,17,18,19,20	-	-90
MCS 5,13,21	-	-73
MCS 6,14,22	-	-71
MCS 7,15	-69	-
MCS 7,15,23	-	-70
802.11n HT40		
MCS 0/8	-87	-
MCS 0,1,2,3,4,8,9,10,11,12,16,17,18,19,20	-	-86
MCS 5,13,21	-	-69
MCS 6,14,22	-	-68
MCS 7,15	-66	-
MCS 7,15,23	-	-67
802.11ac 256QAM VHT80		
HT20 MCS 8 @ 3/4 Code rate	-	-59
HT20 MCS 9 @ 5/6 Code Rate	-	-57
HT40 MCS 8 @ 3/4 Code Rate	-	-56
HT40 MCS 9 @ 5/6 Code Rate	-	-54
HT80 MCS 8 @ 3/4 Code rate	-	-53
HT80 MCS 9 @ 5/6 Code Rate	-	-51
802.11ac		
VHT20 MCS0	-87	-
VHT20 MCS8	-66	-
VHT40 MCS0	-85	-
VHT40 MCS9	-61	-
VHT80 MCS0	-84	-
VHT80 MCS9	-58	-

MCS Index	Receive Sensitivity 2.4 GHz	
	AP120	AP 320
802.11a (legacy)		
1Mbps	-92	-95
6Mbps	-89	-91
11Mbps	-84	-87
54Mbps	-72	-74
802.11n HT20 (legacy)		
MCS 0/8	-89	-
MCS 0/8/16	-	-91
MCS 7,15	-69	-
MCS 7,15,23	-	-70
802.11n HT40		
MCS 0/8	-87	-
MCS 0/8/16	-	-87
MCS 7,15	-66	-
MCS 7,15,23	-	-67

Country-Wise Max Transmit Powers (dBm)		
Countries	2.4 GHz	5 GHz
Australia	20	23
Canada	30	23
India	20	20
Israel	20	20
Japan	20	20
UAE	20	17
USA	20	23

*Note: The actual transmit power will be the lowest of:

- Value specified in the Device Template
- Maximum value allowed in the regulatory domain
- Maximum power supported by the radio

Regulatory Specifications RF and Electromagnetic	
Countries	Certification
USA	FCC Part 15.247, 15.407
Canada	IC
Europe	CE EN300.328, EN301.893 Countries covered under Europe certification: Austria, Belgium, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Iceland, Luxembourg, Latvia, Lithuania, Malta, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Slovakia, Slovenia, Switzerland, The Czech Republic, UK.

Information Technology Equipment - Safety	
Countries	Certification
USA	UL 60950
Canada	cUL 60950
European Union (EU)	EN 60950 RoHS