



The Intelligent Wireless Networking Choice™

PRODUCT SPECIFICATIONS:

MultiService Access Point / Model 320R/Outdoor (MAP-320R)

Physical Specifications		
Interfaces	Radio: One IEEE 802.11a/b/g radio, software selectable Network port: One waterproof RJ-45 auto-sensing 802.3 10/100 BASE-T Ethernet (includes male and female)	
Antennas	Two 5.5 dBi 2.4GHz omni-directional; Two waterproof N-type female with diversity	
Power	RJ-45 802.3af Power over Ethernet; 6.5 Watts, max.	
Dimensions	H: 54.35 mm (2.14 in); L: 214.38 mm (8.44 in); W: 184.15 mm (7.25 in) 4.08 Kg, (9.0 lbs)	
Environmental	Operating: -20°C1 to +50°C; Storage: -40°C to 80°C; Humidity: 5% to 95% typical (non-condensing)	
Enclosure	Die cast aluminum with 3-point silicone rubber gasket; Goretex vent; NEMA-4, IP65 and EN61373 compliance	
Compliance and Certification		
Radio Approvals	US: FCC Part 15.247, 15.407; Canada: RSS-210; EU: ETS 301 893, ETS 300 328; Japan: ARIB STD-T71, TELEC 33B; Korea: MIC; Singapore: IDA	
Safety Approvals and Other Compliance	ICES-003, VCCI, EN 301.489-1 and -17; EN 50121-3-2; RoHS compliant, EN60601-1-2 (European Medical Compliance)	
WiFi Certification (COS software v5.2)	IEEE 802.11a, IEEE 802.11b, IEEE 802.11g WPA and WPA2 Wireless Multimedia (WMM), WMM Powersave EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM* IEEE 802.11d, IEEE 802.11h	
Radio Specifications	802.11a operation	802.11b or 802.11g operation
Frequency Bands	Available in accordance with country-specific regulatory approvals: 4.920–4.980 GHz 5.150–5.350 GHz 5.250-5.350 GHz 5.47–5.725 GHz 5.725–5.825 GHz	Available in accordance with country-specific regulatory approvals: 2.412 – 2.462 GHz 2.412 – 2.484 GHz
Operating Channels	Configurable based on country regulations 802.11h Dynamic Frequency Selection	Configurable based on country regulations
Data Rates	6, 9, 12, 18, 24, 36, 48, 54 Mbps	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
Receive Sensitivity (without antenna)	-87 dBm @ 6 Mbps -67 dBm @ 54 Mbps	802.11g: -87 dBm @ 6 Mbps; -70 dBm @ 54 Mbps 802.11b: -87 dBm @ 11 Mbps
Transmit Power (without antenna)	18 dBm +/- 2 @ 6-24 Mbps 12 dBm +/- 2 @ 54 Mbps 802.11h Transmit Power Control	802.11g: 18 dBm +/- 2 @ 6-24 Mbps 13 dBm +/- 2 @ 54 Mbps 802.11b: 18.5 dBm +/- 2 @ 1-11 Mbps

* In addition to the EAP methods tested by the WiFi Alliance, Colubris MAPs also support EAP-FAST and EAP-AKA.



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