

	EnGenius EOC-3220R	Ubiquiti Nanostation2	EnGenius EOC-8610R	Ubiquiti Nanostation5
HARDWARE				
Processor Specs	RTL8186, 180MHz	AR2313 SOC, MIPS 4KC, 180MHz	Ubicom IP5K, 275MHz, AR5413 Mini PCI	AR2315 SOC, MIPS 4KC, 180MHz
Memory Information	Flash: 4MB SDRAM: 16MB	Flash: 4MB SDRAM: 16MB	Flash: 4MB SDRAM: 8MB	Flash: 4MB SDRAM: 16MB
Networking Interface	1X10/100 Base-TX (Cat. 5, RJ-45) Ethernet Interface	1X10/100 Base-TX (Cat. 5, RJ-45) Ethernet Interface	1X10/100 Base-TX (Cat. 5, RJ-45) Ethernet Interface	1X10/100 Base-TX (Cat. 5, RJ-45) Ethernet Interface
Standards	802.11b 802.11g	802.11b 802.11g	802.11a 802.11b 802.11g	802.11a
TX Specifications (BEST)				
- 11a (6Mbps)	-	-	22dBm	24dBm
- 11b (1Mbps)	26dBm	26dBm	28dBm	-
- 11g (6Mbps)	26dBm	26dBm	27dBm	-
RX Specifications (BEST)				
- 11a (6Mbps)	-	-	-88dBm	-94dBm
- 11b (1Mbps)	-92dBm	-97dBm	-95dBm	-
- 11g (6Mbps)	-88dBm	-94dBm	-91dBm	-
Outdoor Casing	IP 67	Outdoor UV Stabilised Plastic	IP 67	Outdoor UV Stabilised Plastic
Mounting Kit	Mast Mounting Kit (Stainless Steel)	Pole Mounting Kit (Plastic Straps)	Mast Mounting Kit (Stainless Steel)	Pole Mounting Kit (Plastic Straps)
Antenna	Integrated 9dBi (2.4GHz)	Integrated 10dBi (2.4GHz)	External 5dBi with SMA connector (2.4/5GHz)	Integrated 14dbi (5GHz)
Power Method	48V Active PoE	12V Passive PoE	48V Active PoE	12V Passive PoE
Operating Temperature	-20C to +70C	-20C to +70C	-20C to +70C	-20C to +70C
Operating Humidity	5% to 95%	5% to 95%	5% to 95%	5% to 95%
CERTIFICATION				
FCC	Yes	Yes	Yes	Yes
ETSI	Yes	Yes	Yes	Yes
CE	Yes	Yes	Yes	Yes
ROHS	Yes	Yes	Yes	Yes

	EnGenius EOC-3220R	EnGenius EOC-8610R	Ubiquiti Air OS
SOFTWARE			
Protocol Support	N/A	N/A	Dynamically router board protocol compatible
Channelization	No	No	Operate in proprietary channels; enhanced security and network privacy
Spectral Width Adjust	No	Yes	5/10/20/40MHz options for increased throughput or increased range performance
Multi-Language Support	No	No	English, Spanish, French, Portuguese and Chinese
ACK Auto-Timing	Yes	Yes	Automatically converge to optimum ACK timeout value for distance links
AAP Technology	No	No	Adaptively SW adjust antenna polarity for optimum performance
"Open Source" Philosophy	Yes	not linux, the OS is IPOS	Full SDK and Ubiquiti engineering support open for 3rd party firmware developments
Wireless Modes	No, not including router	No, not including router	Station Bridge/Router, Access Point Bridge/Router, Repeater, PtP / PtmP Bridge/Router
Networking			
802.3 bridging	Yes	Yes	Yes
Router Mode - Static IP Routing	No	No	Yes
Masquerading (NAT)	No	No	Yes
DMZ	No	No	Yes
Port Forwarding	No	No	Yes
DNS Proxy	No	No	Yes
DHCP Server and Client	Yes	Yes	Yes
PPPoE Client	Yes, in client router	Yes	Yes
NTP	No	No	Yes
VLAN / 802.1q pass-through	No	Yes	Yes
PPTP, IPSec pass-through	No	No	Yes
Wireless Client Bridge support	Yes	Yes	Yes
Traffic shaping	No	No	Yes
MAC Cloning	Yes	Yes	Yes
WLAN			
WDS Bridging or routing	WDS bridge	WDS bridge	Yes
Static wireless Access Control list	Yes	Yes	Yes
Layer 2 User Isolation	No	Yes	Yes
Transmit Power Control Support	Yes	Yes	Yes
Super Frames (Fast Frames, Bursting)	No	Yes	Yes
802.11e QoS (WMM)	Yes	Yes	Yes
SSID Broadcast Disabling	No	Yes	Yes
WPA/WPA2; TKIP, AES (CCMP), WEP	Yes	Yes	Yes
3 Data Rate Algorithms	N/A	N/A	Yes
MultiCast Rate options	No, but we can support	No	Yes
Dynamic ACK timeout	Yes	Yes	Yes
Antenna Diversity Control	No	Yes	Yes
Noise Immunity Options	No	Yes	Yes
Tools	N/A	N/A	Yes
Ping Watch Dog	No	No	Yes
Antenna Alignment Tool	No	No	Yes
Throughput Test Utility	No	No	Yes
Ping	Yes	No	Yes
Traceroute	No, but we can support	No	Yes
Management			
Intuitive Web Management Interface	Yes	Yes	Yes
(Backup/Restore) configuration files	Yes	Yes	Yes
Password protected access	Yes	Yes	Yes
Full Statistical performance reporting	No	No	Yes
Detailed link quality information	Yes	Yes	Yes
SNMP v1 Support	Yes, private WLAN MIB	Yes, private WLAN MIB	Yes
LED indication level management	No	No	Yes
Reset to factory defaults	Yes	Yes	Yes
Firmware recovery TFTP	only support in bootcode	No	Yes
Customizable Logo	No	No	Yes
SDK available for customization	Yes	No	Yes