



5.8 GHz Outdoor MIMO Wireless Access Point

Ideal for wide coverage area applications

FEATURES

- 5 GHz frequency band
- 802.11 a/n modulation
- 2 x 2 MIMO
- Dual N antenna connectors
- IP65 weather rating



The WIP5800N-WR is a versatile, very efficient, and stable 5 GHz wireless access point. The unit is equipped with an extreme output power (up to 29 dBm) 802.11n MIMO radio wrapped securely inside a robust IP-65 compliant enclosure with two N-type connectors, suited for wide coverage area applications.

The robust hardware is coupled with an advanced and feature-rich operating system optimized for high performance communications which allows compatibility with older 802.11a standards while adding support for the latest in wireless communications. The WIP5800N-WR supports access point, station, and WDS operating modes and can act as bridge or as router making it one of the most flexible devices on the market.

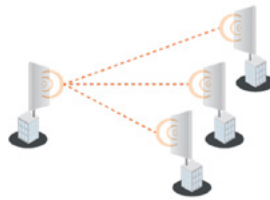
The software engine running on the WIP5800N-WR provides a user-friendly Adobe Flex-based GUI with instant changes, includes useful installation tools (site survey, antenna alignment, delayed reboot) and also is compatible with Wireless Network Management System for one of the most advanced management tools on the market.

This wireless access point is an ideal device for point-to-multiple point applications as a base-station with and external sector or omni-directional antenna. It is also suited for medium- to long-range point-to-point applications with an external high-gain dual polarized antenna (panel or dish).

Usage Examples

Point to Multi Point

WIP5800N-WR is an ideal device for point-to-multiple point applications as a basestation with and external sector or omni-directional antenna.



Point to Point

WIP5800N-WR is a great device for medium long range point-to-point applications with an external high-gain dual polarized antenna (panel or dish).



Product/ distance recommendation
WIP5800N-WR

PTMP mode
Antenna dependent

PTP mode
Antenna dependent

PTP mode (full capacity)
Antenna dependent

Wireless

Receive sensitivity (dBm)	802.11 N/ iPoll	15 Mbps	30 Mbps	45 Mbps	60 Mbps	90 Mbps	120 Mbps	135 Mbps	150 Mbps
		-93	-91	-89	-86	-83	-79	-77	-75
	30 Mbps	-93	-91	-89	-86	-83	-79	-77	-75
	802.11a	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
Output power (dBm)	802.11 N/ iPoll	23	29	29	29	28	28	27	27
		23	29	29	29	28	28	27	27
	802.11a	6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
		23	29	29	29	28	28	27	25

Product Specifications

Wireless		Physical	
WLAN standard	IEEE 802.11 a/n	Dimensions	Length 5.9" (150 mm) Width 4.5" (115 mm) Height 2.1" (55 mm)
Radio mode	MIMO 2x2	Weight	400 g (16.2 oz)
Operating modes	Access point (auto WDS), Station, Station WDS, iPoll Access Point, iPoll Station	Power supply	18 VDC passive PoE
Radio frequency band	5 GHz	Power source	100 – 240 VAC via included adapter
Transmit power	Up to 29 dBm (country dependent)	Power consumption	6.5 W
Receive sensitivity	Varying between -95 and -75 dBm depending on modulation	Environmental	
Channel size	20, 40 MHz	Operating temperature	-40°C (-22 F) ~ +75°C (+167 F)
Modulation schemes	802.11 a/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)	Humidity	0 ~ 90 % (non-condensing)
Data rates	802.11 n: 300, 270, 240, 180, 120, 90, 60, 30 Mbps 802.11 a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps	Management	
Error correction	FEC, Selective ARQ, STBC	System configuration	User-friendly web GUI, Command line via SSH, centralized Wireless Network Management System, reset via reset tool
Duplexing scheme	Time division duplex	System monitoring	SNMP v1/2c/3 server, Syslogs, system alerts via e-mail and SNMP trap
Antenna		Regulatory	
Type	N-connectors for external antenna	Certification	FCC/CE
Gain	Antenna dependent	Safety	RoHS compliant
Wired			
Interface	10/100 Base-T, RJ45		
Built-in surge protection	Yes		
Software			
General	Ability to define/limit frequency, channel width, EIRP, modulation		
Advanced wireless functionality	ATPC (automatic transmit power control), DFS 3, auto-channel, auto-modulation		
Operating mode	Router, Bridge		
Wireless operating modes	AP, Station, AP WDS, Station WDS, Virtual radios (VSSID), iPoll access point, iPoll client		
Wireless security	WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL, User isolation, UAM (web portal authentication)		
Wireless QoS	WMM		
WAN protocols	Static IP, DHCP client, PPPoE client		
Network	NAT, static routing, firewall, port forwarding, VLAN, traffic shaping		
Services	DHCP server, SNMP server, NTP client, Alerts, Remote syslog, Wireless and Ethernet statistics, bandwidth limiting		
Management	HTTP(S) GUI, SSH CLI, SNMP read, WNMS, troubleshooting file, reset via reset tool		
Tools	Site survey, Link test, Antenna alignment, Ping, Traceroute, Spectrum analyzer, delayed		