

# cnPilot™ r195W

Cloud Managed Residential Access Point



## EXTEND BROADBAND WIRELESS FOR RESIDENTIAL WLAN

The cnPilot r195W provides a low cost and robust performance home WLAN solution to extend the end-to-end broadband service all the way into the subscriber home. With five Gigabit Ethernet ports and dual WLAN radios, the r195W easily connects all the devices in a home for an optimal experience streaming movies, sharing social media or Internet browsing.

## PART OF THE CAMBIUM NETWORKS WIRELESS FABRIC

Service providers that leverage the power of cnMaestro™ to manage a broadband network will be able to integrate the r195W into the wireless fabric. Through cnMaestro web-first interface the r195W features zero touch configuration, stateful alarms and dashboard KPIs, device health and inventory reports.

As always, cnMaestro Essentials management is offered at no charge for cloud management or private cloud management.

## RESIDENTIAL & SMALL BUSINESS ACCESS POINT

802.11AC, 2x2, high gain antennas

Hardware accelerated NAT Firewall

Managed by cnMaestro; Cloud, MSP, On-Premises

## QUICK SPECS

Dual radio, 2.4 GHz, 5GHz

802.11ac, beam steering, VHT rates, airtime fairness

Duplex high gain antennas

WPS Switch

64 wireless devices connected

8 wireless networks (BSSID)

5 x 10/100/1000Mb auto sense

Operating temp: 0°C - +50°C

TR-069, TR-098, TR-0104, TR-0106, TR-0143

Secure HTTPS, SSL based cnMaestro

Hardware accelerated NAT router

## SPECIFICATIONS

### 802.11AC CAPABILITIES

802.11AC 2x2:2:2, MIMO, VHT MCS rates, 256-QAM, HT20/40/80 MHz, Transmit Beam steering, Airtime Fairness Packet Aggregation (AMSDU, AMPDU) RIFS, STBC, LDPC, MIMO Power Save, MRC

### ACCESS POINT SPECIFICATIONS

#### US-FCC, IC (ISED)

2400 – 2484 MHz, 5150 – 5250 MHz

#### Industry Canada (ISED)

2400 – 2484 MHz, 5725 – 5850 MHz

#### EU-ETSI

#### ROW (individual country limits may apply. Consult DoC)

2400 – 2500 MHz, 5150 – 5850 MHz

Antenna	External duplexed antenna, 5dBi
Max EIRP	2.4 GHz: 27 dBm 5 GHz: 20 dBm <i>(EIRP may be limited by individual country regulation)</i>
Power	12VDC, 1a. 2.1mm x 5.5mm DC barrel connector
Physical Environmental	190mm x 135mm x 40mm 0.900g Status LEDs 0C - + 50C ambient op temp -40C - + 70C storage temperature 95% RH non-condensing
Certifications	FCC, ETSI, CE, EN 60601-1-2, IEC60950

SSID Security	WPA2 (802.11i), WPA2 Enterprise (802.1x/EAP), WPA PSK, Open
Max Phy Rate	2.4 GHz radio: 300 Mbps 5 GHz radio: 867 Mbps
Ethernet Ports	Five IEEE Gigabit Ethernet auto sensing

### WLAN AND NETWORK SPECIFICATIONS

Controller Mode	Cloud managed cnMaestro HTTP/HTTPS web interface
WLAN	64 clients, 8 SSIDs WPA-TKIP, WPA2 AES, 802.1x
Authentication	802.1x EAP-SIM/AKA, EAP-PEAP, EAP- TTLS, EAP-TLS MAC authentication to external RADIUS
Accounting	RADIUS accounting, multiple AAA
Subscriber QoS	WMM
Management	<ul style="list-style-type: none"> <li>Firmware Upgrade</li> <li>Web Management Interface</li> <li>Local and Remote Syslog (RFC3164)</li> <li>Auto Provisioning</li> <li>SNTP Time Synchronization</li> <li>Multi User Level SNMP v2</li> <li>Telnet • TR069</li> <li>System Log: local log and remote log</li> </ul>

Network	<ul style="list-style-type: none"> <li>Support NAT mode and Bridge mode</li> <li>Support DDNS</li> <li>MAC address cloning</li> <li>Built-in Wired speed NAT Router</li> <li>DHCP Server and Client</li> <li>IP conflict detection</li> <li>Port Forwarding, DMZ, SuperDMZ</li> <li>802.1Q VLAN/802.1p, DSCP, Rate Limiting</li> <li>VPN (PPTP,L2TP, IPsec) Passthrough</li> <li>SNTP</li> <li>IGMPv2</li> <li>Firewall (SYN Flooding, IP Spoofing, Smurf Attack, Ping of Death, DoS)</li> </ul>
Protocols	<ul style="list-style-type: none"> <li>DHCP/PPPoE</li> <li>HTTP Server for Web Management</li> <li>TFTP/HTTP for Auto Provisioning</li> <li>DHCP Option Codes for SIP (RFC3361)</li> <li>DNS/DNS SRV (RFC1706 and RFC 2782)</li> <li>IEEE802.1Q VLAN/802.1p and IP DSCP</li> <li>SNTP</li> </ul>

### ORDERING INFORMATION

PL-R195WUSA-US	r195W US type A P/S, 802.11n/AC Dual Band 2x2 WLAN access point
PL-R195WEUA-EU	r195W EU type C P/S, 802.11n/AC Dual Band 2x2 WLAN access point
PL-R195WNPA-RW	r195W No line cord, 802.11n/AC Dual Band 2x2 WLAN access point
PL-R195WUKA-EU	r195W UK type G P/S, 802.11n/AC Dual Band 2x2 WLAN access point
PL-R195WINA-RW	r195W India type D P/S, 802.11n/AC Dual Band 2x2 WLAN access point
PL-R195WANA-RW	r195W AUS/NZ type I P/S, 802.11n/AC Dual Band 2x2 WLAN access point
PL-R195WARA-RW	r195W Argentina type I P/S 802.11n/AC Dual Band 2x2 WLAN access point

Discover more information on cnMatrix at: <http://community.cambiumnetworks.com/>