

## MaxR-7200

Dual-Concurrent 802.11n AP  
With 2 miniPCI Slots, GigE and  
680MHz of processing speeds.

Powered by Arada Wireless Solution



Arada Wireless Solution (AWS) combines with industry-leading hardware to give you a unique 802.11n dual-band, dual-concurrent Wireless Access Point (AP). The product has been specifically designed for the high-end Enterprise and Small and Medium Business (SMB) segment. With enterprise class advanced features, this dual-band, dual-concurrent AP offers best-in-class performance using state of art Atheros 3x3 radio chipsets. The dual miniPCI based design runs on the Atheros' AR7161 processor at 680MHz CPU clock cycle and offer TCP/IP throughputs of well over 350 Mbps.

The dual-band, dual-concurrent MaxR-7200 Access Point is a powerful platform for high-performance, 802.11n ready, WLAN applications for various verticals including Enterprise and SMB. It offers ultimate network performance with simultaneous 2.4 and 5.0 GHz bands using 3x3 MIMO radios, together with advanced 802.11n features.

### Platform Highlights

- High performance, draft 2.0 compliant wireless access point solution.
- 680MHz processing power with dual 3x3 MIMO radios for highest throughput
- Full support for Dynamic Frequency Selection (DFS).
- Industry's highest TCP/IP throughput at extended range.
- Support for 3x3 MIMO with spatial multiplexing.
- Operating frequency from 2.3-2.5 GHz and 4.9-5.925GH
- Compliant with IEEE 802.11a, 802.11b, 802.11g, 802.11d, 802.11e, 802.11h, 802.11i, 802.11j, 802.11n.
- Lead-free RoHS compliant.
- PoE support
- Support for internal and External Antenna
- Support for 128 Clients
- Support for turning OFF all the LEDs
- Remote configuration

<b>Software Features</b>	
<b>AP Modes</b>	<ul style="list-style-type: none"> <li>Access Point mode</li> <li>Point-to-point support</li> <li>Point-to-multipoint</li> <li>WDS client</li> <li>Repeater</li> <li>WDS links with WPA-PSK</li> <li>WDS links with WPA2-PSK</li> </ul>
<b>Wireless Security</b>	<ul style="list-style-type: none"> <li>Upto 16 BSSIDs supported</li> <li>Hidden SSID</li> <li>RADIUS MAC authentication</li> <li>Local MAC authentication</li> <li>802.1x client authentication</li> <li>WEP encryption (64, 128, 152 bit)</li> <li>Dynamic WEP keys with 802.1x</li> <li>WPA and WPA2 over 802.1x</li> <li>WPA and WPA2 Pre-shared Key</li> <li>WPA-WPA2 Mixed Mode</li> <li>WPA2 Pre-authentication</li> <li>TKIP and AES encryptions</li> </ul>
<b>Hotspot support</b>	
<b>VLAN</b>	<ul style="list-style-type: none"> <li>802.1Q tagging</li> <li>VLAN bridging</li> <li>4095 VLAN IDs</li> <li>Management VLAN ID</li> <li>Default VLAN ID per radio</li> <li>Untagged VLAN</li> <li>802.1x dynamic VLAN assignments</li> </ul>
<b>QoS</b>	IEEE 802.1p/1Q
<b>Radio Settings</b>	<ul style="list-style-type: none"> <li>Country Code setting</li> <li>External antenna</li> <li>Auto channel selection</li> <li>Selectable mode operation</li> <li>Selectable power setting</li> <li>Data rate setting</li> <li>Selectable beacon interval</li> <li>Selectable DTIM interval</li> <li>Adjustable RTS threshold</li> <li>Adjustable fragmentation threshold</li> <li>Maximum clients setting (128)</li> <li>Frame Aggregation</li> </ul>
<b>Bridging</b>	802.11D and Spanning Tree Protocol
<b>System Software Upgrade</b>	<ul style="list-style-type: none"> <li>TFTP upgrade</li> <li>FTP upgrade</li> <li>HTTP upgrade</li> </ul>
<b>IP Address Management</b>	<ul style="list-style-type: none"> <li>Static</li> <li>DHCP client</li> </ul>

	DHCP server DNS resolution
<b>SNMP</b>	SNMP v1 and v2c SNMPv3 users SNMPv3 groups SNMPv3 trap targets SNMPv3 trap filters SNMP agent
<b>MIB support</b>	802.11a/b/g MIB 802.11n MIB Enterprise MIB
<b>Management Access</b>	Console CLI HTTP Packet capture HTTPS Telnet SSH v2.0
<b>Logging</b>	Event Logging Remote Syslog (4 servers) Console display and clear Web display and clear
<b>System Clock</b>	Manual date and time setting Time zone Daylight saving NTP support
<b>System Information</b>	System configuration Wireless configuration Wireless client status
<b>Full Linux SDK support</b>	
<b>Hardware Support</b>	
<b>Processor Board (AR7161)</b>	32-bit 24k MIPS processor core running at 680MHz
<b>Ethernet</b>	Support for dual 10/100/1000 Ethernet MACs
<b>Radio 1 (AR9160+AR9103)</b>	Single Band 2.4GHz 3x3 11n MIMO radio
<b>Radio 2 (AR9160+AR9106)</b>	Dual Band Configurable 2.4/5.0 GHz 3x3 11n MIMO radio
<b>Frequency Band</b>	2.300 to 2.500 GHz and 4.9 to 5.925 GHz
<b>Modulation Technology</b>	OFDM with BPSK, QPSK, 16 QAM, 64 QAM; DBPSK, DQPSK, CCK
<b>FEC Coding Rate</b>	1/2, 2/3, 3/4, 5/6
<b>Hardware Encryption</b>	AES, TKIP, WEP
<b>Interfaces</b>	PCI - Communication Interface GPIOs, LEDs - Peripheral Interface EEPROM - Memory Interface I <sup>2</sup> S for Audio Streaming SLIC for VOIP

	Dual USB for NAS, networking printer connectivity, etc.
<b>PCI</b>	32-bit, 33/66 MHz PCI 2.3 host interface
<b>Memory</b>	DDR and serial FLASH memory interfaces
<b>Debug</b>	High speed UART and GPIOs
<b>Supported Data Rates</b>	IEEE 802.11a : 6 – 54 Mbps IEEE 802.11b : 1 – 11 Mbps IEEE 802.11g : 6 – 54 Mbps XSPAN : 6.5 – 300 Mbps (per band)
<b>Variable Channel support</b>	Support for 5, 10, 20 and 40 MHz channels. Rx filter supports blocking specifications for half and quarter rate channels.

Certifications	
<b>DFS2</b>	<ul style="list-style-type: none"> <li>• FCC CFR 47 Part 15, FCC MO&amp;O 06-96</li> <li>• Canada RSS-210 Issue 7</li> <li>• ETSI EN301 893 V1.5.1</li> <li>• Japan Radio Law Radio Equipment Regulations ARIB T-71</li> </ul>
<b>Regulatory certification</b>	uL/CuL
<b>WMM-PS certification</b>	
<b>11n interoperability certification</b>	
<b>WMM certification</b>	