

MaxR-7101-AP

Single Band 802.11 b/g/n AP,
With Fast Ethernet and
300MHz of processing speed.

Powered by Arada Wireless Solution



Arada Wireless Solution (AWS) combines with industry-leading hardware to give you a unique 802.11n single-band 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 single band AP offers best-in-class performance using state of art Atheros 2x2 radio chipsets. The single miniPCI based design runs on the Atheros' AR7130 processor at 300MHz CPU clock.

The single band MaxR-7101-AP 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 in the 2.4GHz band using 2x2 MIMO radios, together with advanced 802.11n features.

Platform Highlights

- High performance, draft 2.0 compliant wireless access point solution.
- 300MHz processing power with 2x2 MIMO radio for highest throughput
- Industry's highest TCP/IP throughput at extended range.
- Support for 2x2 MIMO with spatial multiplexing.
- Operating frequency from 2.400 - 2.500 GHz.
- Compliant with IEEE 802.11b, 802.11g, 802.11d, 802.11e, 802.11h, 802.11i, 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

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

	DHCP server DNS resolution
SNMP	SNMP v1 and v2c SNMPv3 users SNMPv3 groups SNMPv3 trap targets SNMPv3 trap filters SNMP agent
MIB support	802.11b/g MIB 802.11n MIB Enterprise MIB
Management Access	Console CLI HTTP Packet capture HTTPS Telnet SSH v2.0
Logging	Event Logging Remote Syslog (4 servers) Console display and clear Web display and clear
System Clock	Manual date and time setting Time zone Daylight saving NTP support
System Information	System configuration Wireless configuration Wireless client status
Full Linux SDK support	
Hardware Support	
Processor Board (AR7130)	32-bit 24k MIPS processor core running at 300MHz
Ethernet	Support for dual 10/100 Fast Ethernet MACs
Radio 1 (AR9223)	Single Band 2.4GHz 2x2 11n MIMO radio
Frequency Band	2.400 to 2.500 GHz
Modulation Technology	OFDM with BPSK, QPSK, 16 QAM, 64 QAM; DBPSK, DQPSK, CCK
FEC Coding Rate	1/2, 2/3, 3/4, 5/6
Hardware Encryption	AES, TKIP, WEP
Interfaces	PCI - Communication Interface GPIOs, LEDs - Peripheral Interface EEPROM - Memory Interface I ² S for Audio Streaming SLIC for VOIP Dual USB for NAS, networking printer connectivity, etc.
PCI	32-bit, 33/66 MHz PCI 2.3 host interface
Memory	DDR and serial FLASH memory interfaces

Debug	High speed UART and GPIOs
Supported Data Rates	IEEE 802.11b : 1 – 11 Mbps IEEE 802.11g : 6 – 54 Mbps XSPAN : 6.5 – 300 Mbps (per band)
Variable Channel support	Support for 20 and 40 MHz channels.