



Package Solution

MIMO Classic Series

Wireless Indoor Access Point

Features

- Atheros XR™ eXtended Range technology
- MIPS 24K-family 300MHz network processor
- IEEE 802.11n compliant and backward compatible with 802.11
- Dual-band MIMO 2 x 2 spatial multiplexing technique
- Supports up to 300Mbps physical data rates
- Delivers 10 times the throughput and nearly twice the range of legacy 802.11a/g network
- Maximum 20dBm output Power (MiMo aggregate 23dBm)
- Supports IEEE802.11i , IEEE802.1x authentication
- Transmission Power Control (IEEE 802.11h TPC)
- Dynamic Frequency Selection (DFS)^①
- Supports 802.3af and Passive Power-over-Ethernet (PoE)
- 2 x RP-SMA Connector and Antenna
- Surge arrestor support

MMC543 TECHNICAL SPECIFICATIONS

SYSTEM INFORMATION							
Processor	Atheros AR7130/300MHz						
Memory Size	32MB (max 64MB optional) DDR SDRAM						
NOR Flash	4MB (max 16MB optional)						
LAN Interface	1 x 10/100 BASE-T Ethernet Port						
Antenna	2 x 2dBi detachable SMA antenna						
Power Consumption	6.4Watts(host board and 20dBm radio)						
Radio option [®]	2.4/5GHz 802.11n(20dBm)			2.4GHz 802.11n(20dBm)			
Tx Specifications		802.11b	802.11g	802.11a	802.11b	802.11g	
	1Mbps	20dBm	20dBm		20dBm	20dBm	
	6Mbps	20dBm	20dBm	18dBm	20dBm	20dBm	
	54Mbps		17dBm	16dBm		15dBm	
		802.11n/g		802.11n/a		802.11n/g	
		HT20	HT40	HT20	HT40	HT20	HT40
	MS0	18dBm	18dBm	18dBm	16.5dBm	17dBm	17dBm
	MS7	15dBm	14.5dBm	12dBm	9dBm	14dBm	14dBm
MS15	15dBm	14.5dBm	12dBm	9dBm	14dBm	14dBm	
Rx Specifications		802.11b	802.11g	802.11a	802.11b	802.11g	
	1Mbps	-92dBm	-92dBm		-92dBm	-92dBm	
	6Mbps	90dBm	-92dBm	-91dBm	-90dBm	-92dBm	
	54Mbps		-79dBm	-78dBm		-79dBm	
		802.11n/g		802.11n/a		802.11n/g	
		HT20	HT40	HT20	HT40	HT20	HT40
	MS0	-91dBm	-92dBm	-87dBm	-86dBm	-92dBm	-86dBm
	MS7	-73dBm	-73dBm	-70dBm	-71dBm	-73dBm	-71dBm
MS15	-69dBm	-71dBm	-66dBm	-67dBm	-71dBm	-67dBm	
Power Supply	24V to 48V DC, power adapter and injector included						
Power method	Passive PoE(range 24V-48V DC), 802.3af PoE(48V-56V) or DC Jack						
Certification	FCC, CE						
RoHS Compliant	Yes						
Weight	260 grams						
Humidity	Operating: 5% to 95% (non-condensing) Storage: Max.90% (non-condensing)						
Temperature Range	Operating: -20°C to 70°C Storage: -40°C to 90°C						
Dimension	145 x 132 x 41 mm (H x W x D)						

FIRMWARE SPECIFICATIONS

Multiple SSID

- Supports up to 4 virtual access points (VAP) per radio, with unique BSSID. Each VAP can configure their own security

Long Range Support

- Suitable for long range wireless deployment with Proprietary Long Distance Algorithm of ACK and CTS timeout adjustment support.
- Provides recommended values for the parameters as well as allow for manual fine-tuning for optimal performance.

Signal Strength Indicators

- LEDs are adjustable to display 4 different level signal strength

Variable Spectrum Bandwidth Support

- Options to select operation over 5MHz,20MHz and 40MHz spectrum bandwidth

FIRMWARE INFORMATION	
Operating Modes	<ul style="list-style-type: none"> • Access Points • Station • Station WDS • Repeater WDS • Wireless Adapter • Station + Router • Access Point + Router
WAN Type	<ul style="list-style-type: none"> • Static IP • Dynamic IP • PPPoE
Device Management	<ul style="list-style-type: none"> • HTTP / HTTPs Web Server • SNMP V2c • Telnet / Secure Shell (SSH)
Data Capture & Notification	<ul style="list-style-type: none"> • Event Login (Syslog) • Detailed Statistics per Client
Virtual Access Point (VAP)	<ul style="list-style-type: none"> • Up to 4 SSIDs with unique MAC Addresses (BSSID)
Advanced Features	<ul style="list-style-type: none"> • Built-in DHCP server • Transmission Power Control (One dB per step) • Closed System (Suppress SSID) • Transmission Rate Control • Spanning Tree Protocol

OTHER PROMINENT FEATURES	DESCRIPTION
Long Range Parameter Settings	Suitable for Long Range wireless deployment with high receiver sensitivity.
CPE Point-to-Point (PtP)	Ideal as CPE device connecting PtP with a central AP
Power with PoE	Device power from PoE through ethernet cable provides flexible installation.
IEEE 802.11h (DFS & TPC)	Enables worldwide operation through support for standards-based Dynamic Frequency Selection (DFS) and Transmission Power Control (TPC)
SNMP Trap	SNMP Traps enable an agent to notify the management station of significant events by way of an unsolicited event.
Signal Strength LEDs Indicators	LEDs are adjustable to display 4 different level signal strength
DHCP Relay (Only in Gateway or Wireless Routing Client Mode)	Allows DHCP Clients on different subnets to get IP address from central DHCP server.
Remote Upgrade of Firmware	Allows user to upgrade their firmware through Telnet/SSH
RIP 1 / 2 (Only in Gateway or Wireless Routing Client Mode)	Routing Information Protocol Version 1 / 2
Tag and Untag VLAN/VLAN Pass-through	a. Tag VLAN Pass-through mode in AP/Transparent Client link b. Wireless untag Vlan to Ethernet Tag Vlan mode c. Wireless tag Vlan to Ethernet Tag Vlan mode

Customizable Features^②

CUSTOMIZABLE FEATURES	DESCRIPTION
Web Page Customization	Customize webpage for OEM customers.

Product Information ^④

Model Name	Processor	NOR Flash
MMC543 6A	AR7130 300MHz	4MB
MMC543 6B [MOQ needed]	AR7130 300MHz	8MB

Ordering Configurations ^⑤

Item Code	MiniPCI	Power Supply Version	Carton Dimension
MMC543HVG 6AEUN2	WLM200NX	EU Version	For 10 pcs/carton, 0.78m*0.38m*0.25m /0.006=12.35KG
MMC543HVA 6AEUNX	WLM200NX	EU Version	
MMC543HVG 6AUSN2	WLM200NX	US Version	
MMC543HVA 6AUSNX	WLM200NX	US Version	
MMC543HVx 6xxxxxx	Other WLM200 series miniPCI card [23-26dBm]	US/EU Version	

- ① Only for dual-band or 5GHz Single -band radio model
- ② Standard package come with either 11n dual-band or 11n single-band 2.4GHz type
- ③ For OEM and customization, please contact sales person
- ④ Configurations are subject to change without notice
- ⑤ Please contact Compex sales representatives for other available configurations

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