



MIMO Junior Access Point MMJ2N28

Wireless 300Mbps Outdoor Access Point
Built-in 8dBi@2.4GHz Dual Polarization Antenna

Features

- IEEE 802.11 b/g/n compliant
- MIPS 24K-family 300MHz network processor
- Atheros XSPAN technology
- Support CompeX WLM200N2 series miniPCI radio modules
- Built-in 8dBi@2.4GHz dual-polarization antenna
- Antenna Alignment Signal Survey
- Distance Adjustment for long range transmission
- Passive PoE support
- Supports IEEE802.11i , IEEE802.1x authentication
- Weatherproof casing and Grounding Terminal
- 2 x RP-SMA Male Connector for External Antenna (Optional)^①



TECHNICAL SPECIFICATIONS

SYSTEM INFORMATION	
Processor	Atheros AR7130 300MHz
Memory Size	32MB DDR SDRAM
NOR Flash	4MB
LAN Interface	1 x 10/100 BASE-T Ethernet Port
Antenna	Integrated directional 8dBi@2.4GHz dual-polarization antenna
Power Consumption	8.9 Watts
Power method	Passive PoE
External Connector	2 x RP-SMA male socket(Optional) ^①
	FCC, CE
RoHS Compliant	Yes
Weight	420 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	223 x 123 x 60 (mm)

WLM200N2-26 MIMO MINIPCI CARD RADIO							
TX SPECIFICATIONS				TX SPECIFICATIONS			
	DataRate	TX Power (aggregate power)	Tolerance		DataRate	TX Power (aggregate power)	Tolerance
802.11b	11Mbps	29dBm	±2dB	802.11g	6-24Mbps	29dBm	±2dB
	5.5Mbps	29dBm	±2dB		36Mbps	29dBm	±2dB
	2Mbps	29dBm	±2dB		48Mbps	25dBm	±2dB
	1Mbps	29dBm	±2dB		54Mbps	24dBm	±2dB
	DataRate	TX Power (aggregate power)	Tolerance		DataRate	TX Power (aggregate power)	Tolerance
2.4GHz 11n HT20	MCS 0/8	26dBm	±2dB	2.4GHz 11n HT40	MCS 0/8	25dBm	±2dB
	MCS 1/9	26dBm	±2dB		MCS 1/9	25dBm	±2dB
	MCS 2/10	26dBm	±2dB		MCS 2/10	25dBm	±2dB
	MCS 3/11	26dBm	±2dB		MCS 3/11	25dBm	±2dB
	MCS 4/12	26dBm	±2dB		MCS 4/12	25dBm	±2dB
	MCS 5/13	25dBm	±2dB		MCS 5/13	25dBm	±2dB
	MCS 6/14	24dBm	±2dB		MCS 6/14	24dBm	±2dB
	MCS 7/15	23dBm	±2dB		MCS 7/15	23dBm	±2dB
RX SPECIFICATIONS							
	DataRate	Sensitivity (2 chains)	Tolerance		DataRate	Sensitivity (2 chains)	Tolerance
802.11g	6 Mbps	-94dBm	±2dB	802.11b	1 Mbps	-94dBm	±2dB
	9 Mbps	-94dBm	±2dB		5.5Mbps	-94dBm	±2dB
	12 Mbps	94dBm	±2dB		11 Mbps	-92dBm	±2dB
	18 Mbps	-92dBm	±2dB				
	24Mbps	-88dBm	±2dB				
	38Mbps	-82dBm	±2dB				
	48Mbps	-76dBm	±2dB				
	54Mbps	-74dBm	±2dB				
2.4GHz 11n HT20	MCS0	-92dBm	±2dB	2.4GHz 11n HT40	MCS0	-90dBm	±2dB
	MCS1	-91dBm	±2dB		MCS1	-86dBm	±2dB
	MCS2	-89dBm	±2dB		MCS2	-85dBm	±2dB
	MCS3	-86dBm	±2dB		MCS3	-82dBm	±2dB
	MCS4	-81dBm	±2dB		MCS4	-79dBm	±2dB
	MCS5	-78dBm	±2dB		MCS5	-75dBm	±2dB
	MCS6	-76dBm	±2dB		MCS6	-74dBm	±2dB
	MCS7	-73dBm	±2dB		MCS7	-71dBm	±2dB

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

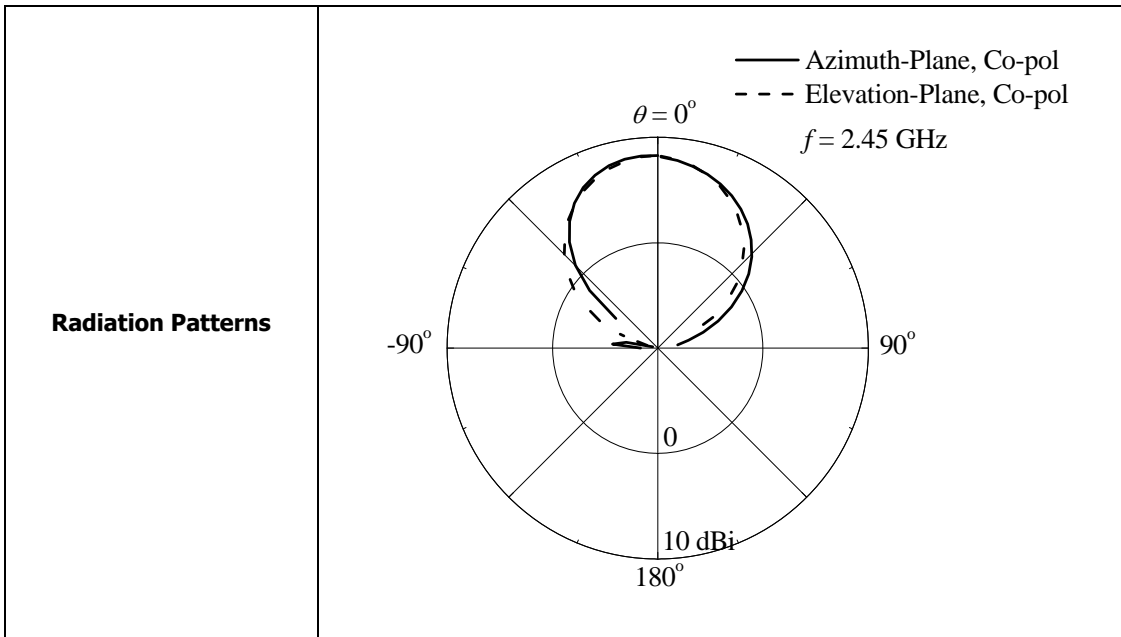
OTHER PROMINENT FEATURES	DESCRIPTION
Long Range Parameter Settings	Suitable for Long Range wireless deployment with high receiver sensitivity.
CPE Point-to-Point (PtP)	Ideal as CPE device connecting PtP with a central AP
Power with PoE	Device power from PoE through ethernet cable provides flexible installation.
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	<ul style="list-style-type: none"> 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.

Specifications of 8dBi 2.4GHz Antenna

Gain	8dBi	
Radiation	Directional	
Frequency Range	2.4-2.5 GHz	
Polarization	Dual Polarization	
Horizontal -3dB Beamwidth	60 degrees	
Vertical -3dB Beamwidth	60 degrees	
Front-to-Back Ratio	>25 dB	
VSWR	$\leq 1.12:1$	<p>2.2GHz to 2.8GHz Range Plot</p>
Return Loss	$\leq 17\text{dB}$	
Port to Port Isolation	$\geq 10\text{dB}$	
Return Loss & Isolation Plot		



Ordering Information ^③

Codes	Integrated Antenna	Version	CARTON DIMENSIONS
MMJ2N28LV 7A04GFCU	8dBi@2.4GHz	COMPEX US version	For 10pcs (pcs/ctn), 0.78m*0.38m*0.25m/0.006=12.35KG
MMJ2N28LV 7A04GFCE	8dBi@2.4GHz	COMPEX EU version	
MMJ2N28LV 7A04GFOU	8dBi@2.4GHz	OEM US version	
MMJ2N28LV 7A04GFOE	8dBi@2.4GHz	OEM EU version	

- ① Depends on Order Information
- ② Features are not available on the Firmware. Please contact sales person for customization
- ③ Configurations are subject to change without notice
Please contact Compex sales representatives for other available configurations.

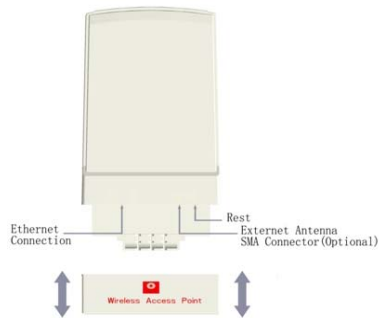
Mounting Options

Mounting Options

1. Pole Mount (Standard)



2. Wall Mount (Optional)



Complex Systems Pte Ltd

135 Joo Seng Road, PM Industrial Building #08-01,
Singapore 368363
Tel: (65) 6286 2086
Fax: (65) 6280-9947
Email: sales@compex.com.sg

Complex (Suzhou) Co Ltd

NO.12, ChuangTou Industrial Square,
LouFeng North, Suzhou Industrial Park,
Suzhou, Jiangsu Province, China 215122
Tel: (86)-512-62950050
Fax: (86)-512-62950026



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