

## Outdoor High Performance IEEE 802.11 b/g/n Wireless AP

# JetWave 2450 V2



802.11b/g/n



IP55



-20 ~ 70



R&amp;TTE

- IEEE 802.11n wireless outdoor solution, backward compatible with 802.11b/g
- 802.11n 2T2R MIMO data rate up to 300Mbps
- High performance and low maintaining cost for video surveillance
- Wireless QoS (WMM) for video precedence transmission
- Internal 9dBi directional antenna (Vertical 60° , Horizontal 70° )
- Up to 2KM Wireless coverage
- Supports Base Station, Point to Point, Point to Multiple Point connectivity
- Supports Spanning Tree Protocol, IGMP Snooping, SNMPv3, NTP, DHCP Server, Router mode
- Advanced security system by WPA-PSK(TKIP), WPA2-PSK(AES)
- Built-in 24VDC PoE, to be powered through Ethernet cable
- IP55, -20-70°C operating temperature

## Overview

The JetWave 2450 V2 is a 2.4GHz IEEE 802.11n Wireless Outdoor Access Point compliant with the 802.11n standard and backward compatible with 802.11 b/g standard. The 802.11n standard features 3 times better than 802.11 b/g standard. The cost-effective JetWave 2450 V2 with high throughput is the best wireless outdoor solution, especially for the video surveillance application.

JetWave 2450 V2 uses default embedded 9dBi directional antenna, and delivers high output power and high sensitivity, which can extend range and provide to 2KM wireless coverage. The high throughput 802.11n wireless transmission reduces the roaming between Aps and provides stable wireless connection. The IP55 waterproof standard, and -20-70°C operating temperature allows users to install the device under harsh environmental conditions. The 24VDC power input can be delivered through the Ethernet cable by the attached injector.

The JetWave 2450 V2 function as an AP/CPE, WDS modes for different point to point or point to multiple point network applications. Per surveillance use case, As the WDS mode to send long distance real-time streaming back to central device , or plays an AP/WDS role to offload traffic to data center.

The advanced features include Spanning Tree Protocol to avoid the loop storm, QoS (WMM) to prioritize classes for different applications, IGMP snooping for multicast stream filtering, secure system by WEP, WPA, WPA2 and SNMPv3 management. Combining superior wireless technology and advanced features, the JetWave 2450 V2 Wireless Outdoor Access Point is a reliable, high-performance solution for the most demanding wireless networking environments.

# Specification

<b>Technology</b>		<b>Management</b>	
<b>Standard</b>	Wireless: IEEE 802.11b/g and 802.11n for Wireless LAN IEEE 802.11i Wireless Security Ethernet: IEEE 802.3 for 10BaseT IEEE 802.3u for 10/100Base-TX IEEE 802.1D Spanning Tree Protocol IEEE 802.1Q for VLAN Highest Data Rate: IEEE 802.11b: 11 Mbps IEEE 802.11g: 54 Mbps IEEE 802.11n: 300Mbps @ 40MHz	<b>Management</b>	Web GUI, Korenix View Utility, SNMP, NTP, IP Setup, DHCP Server/Client, Management VLAN, Configuration Backup/Restore, Reload Default
<b>Interface</b>		<b>Operating Mode</b>	System: Bridge or Router Wireless: Wireless Access Point, Wireless Client WDS-AP, WDS-Client
<b>Ethernet Port</b>	1x 10/100Base-T, Auto Negotiation	<b>WLAN Setup</b>	Multiple SSID, SSID Broadcast, 802.11 Mode, Frequency/Channel Select, Data Rate, VLAN ID, Advanced Settings, Maximum Client number
<b>Reset</b>	One Reset button to reset factory default	<b>WMM</b>	WMM QoS
<b>Cables</b>	2/4-pair UTP/STP Cat. 5 cable (50m)	<b>Traffic Shaping</b>	Downstream/ Upstream Traffic Limit
<b>Performance</b>		<b>Router</b>	Static, DHCP, LAN/WAN IP, IP/Port Filtering
<b>CPU</b>	AR9342	<b>STP</b>	Support Spanning Tree Protocol
<b>Memory</b>	16MB Flash 64MB SDRAM	<b>SNMP</b>	Simple Network Management Protocol v1/v2c/v3
<b>Operating Frequency</b>	FCC : 2.412-2.462GHz CE : 2.412-2.472GHz (Programmable for different country regulations)	<b>Status</b>	Wireless Status, Associated client, Ping, Site Survey, Ping Watchdog
<b>MIMO</b>	2T2R	<b>System Log</b>	System events log
<b>RF Modulation</b>	DSSS/BPSK/QPSK/CCK/DQPSK/DBPSK 802.11 b/g/n: OFDM	<b>Security</b>	
<b>RF Output Power (Max. of Avg.)</b>	<b>2.4GHz Band:</b> 26dBm at 802.11g/n HT40 (MCS0/8) for FCC 20dBm EIRP for CE (ETSI 300 328) (Controllable for different country regulations)	<b>Security</b>	Multi-SSID (up to 8x ESSID), HTTPS, SSH
<b>Sensitivity</b>	<b>802.11b:</b> -85dBm@11Mbps,1Rx; -91dBm@1Mbps,1Rx <b>802.11g:</b> -89dBm@6Mbps,1Rx; -70dBm@54Mbps,1Rx <b>802.11g/n HT20:</b> -83dBm@MCS0,1Rx; -65dBm@MCS7,1Rx <b>802.11g/n HT40:</b> -80dBm@MCS0,1Rx; -62dBm@MCS7,1Rx	<b>Firewall</b>	Inbound/outbound firewall for IP/MAC filtering DMZ, Port forwarding, DMZ
<b>Power Requirements</b>		<b>Security Encryption</b>	WEP 64/128/152 bits, WPA-PSK(TKIP), WPA2-PSK (TKIP and AES), Legacy 802.1X
<b>Power</b>	Ethernet 1: Passive PoE 24V, Mode B (Pin 4,5 VDC+, 7,8 VDC-) Cables: 2/4-pair UTP/STP Cat. 5E cable (100m)	<b>Mechanical</b>	
<b>Power Consumption</b>	Max. 12 Watts @ DC 24V, depend on Radio TX power	<b>Enclosure</b>	IP55 protection
<b>Default WIFI Antenna Characteristics</b>		<b>Dimension Installation</b>	205 mm(L) x 64 mm(W) x 61 mm(H) Pole Mount (ADC-12 Aluminum alloy)
<b>Gain</b>	Internal 9dBi directional antenna	<b>Weight</b>	500g
<b>Frequency</b>	2.4 - 2.5 GHz	<b>Environmental</b>	
<b>Direction</b>	Vertical 60°, Horizontal 70°	<b>Operating</b>	Temperature: -20 -70°C Humidity: 10% - 95% (operating)
<b>LED</b>		<b>Storage</b>	Temperature: -40 - 70°C
<b>LED Definition</b>	Power(Single-color LED x1) : Green On: Power / system on Green Off: power / system off LAN (Single-color LED x1): Off: No Ethernet connection detected Green On: Ethernet connection detected Green Blinking: Sending / receiving data WLAN(Single-color LED x1): Green Off: WLAN disabled Green On: WLAN enable Green Blinking: WLAN data transmit Signal *3 (Single-color LED x3) Excellent: 3 LED Green ON Good: 2 LED Green ON Weak: 1 LED Green ON	<b>Approvals</b>	
		<b>Certification</b>	R&TTE: CE EN55022/55024 EN 301 489-1/17 EN 300 328 V1.8.1 Safety EN60950-1 FCC Part 15 sub B/C
		<b>Warranty</b>	3 years
		<b>Ordering Information</b>	
		<b>JetWave 2450v2 EU</b> - Outdoor High Performance IEEE 802.11b/g/n Wireless AP, EU Adapter	
		<b>JetWave 2450v2 US</b> - Outdoor High Performance IEEE 802.11b/g/n Wireless AP, US Adapter	
		<b>JetWave 2450v2 AU</b> - Outdoor High Performance IEEE 802.11b/g/n Wireless AP, AU Adapter	
		Includes: <input type="checkbox"/> IEEE 802.11n JetWave2450 v2 <input type="checkbox"/> Pole Mounting Ring <input type="checkbox"/> 24VDC Power cord & PoE Injector <input type="checkbox"/> Ferrite Suppression Core <input type="checkbox"/> Grounding Wire	