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

JetWave 2450 V2

802.11b/g/n

IP55

-20 ~ 70

R&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

Technology	
Standard	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
Interface	
Ethernet Port	1x 10/100Base-T, Auto Negotiation
Reset	One Reset button to reset factory default
Cables	2/4-pair UTP/STP Cat. 5 cable (50m)
Performance	
CPU	AR9342
Memory	16MB Flash 64MB SDRAM
Operating Frequency	FCC : 2.412~2.462GHz CE : 2.412~2.472GHz (Programmable for different country regulations)
MIMO	2T2R
RF Modulation	DSSS/BPSK/QPSK/CCK/DQPSK/DBPSK 802.11 b/g/n: OFDM
RF Output Power (Max. of Avg.)	**2.4GHz Band:** 26dBm at 802.11g/n HT40 (MCS0/8) for FCC 20dBm EIRP for CE (ETSI 300 328) (Controllable for different country regulations)
Sensitivity	**802.11b:** -85dBm@11Mbps,1Rx; -91dBm@1Mbps,1Rx **802.11g:** -89dBm@6Mbps,1Rx; -70dBm@54Mbps,1Rx **802.11g/n HT20:** -83dBm@MCS0,1Rx; -65dBm@MCS7,1Rx **802.11g/n HT40:** -80dBm@MCS0,1Rx; -62dBm@MCS7,1Rx
Power Requirements	
Power	Ethernet 1: Passive PoE 24V, Mode B (Pin 4,5 VDC+, 7,8 VDC-) Cables: 2/4-pair UTP/STP Cat. 5E cable (100m)
Power Consumption	Max. 12 Watts @ DC 24V, depend on Radio TX power
Default WIFI Antenna Characteristics	
Gain	Internal 9dBi directional antenna
Frequency	2.4 ~ 2.5 GHz
Direction	Vertical 60°, Horizontal 70°
LED	
LED Definition	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

Management	
Management	Web GUI, Korenix View Utility, SNMP, NTP, IP Setup, DHCP Server/Client, Management VLAN, Configuration Backup/Restore, Reload Default
Operating Mode	System: Bridge or Router Wireless: Wireless Access Point, Wireless Client WDS-AP, WDS-Client
WLAN Setup	Multiple SSID, SSID Broadcast, 802.11 Mode, Frequency/Channel Select, Data Rate, VLAN ID, Advanced Settings, Maximum Client number
WMM	WMM QoS
Traffic Shaping	Downstream/ Upstream Traffic Limit
Router	Static, DHCP, LAN/WAN IP, IP/Port Filtering
STP	Support Spanning Tree Protocol
SNMP	Simple Network Management Protocol v1/v2c/v3
Status	Wireless Status, Associated client, Ping, Site Survey, Ping Watchdog
System Log	System events log
Security	
Security	Multi-SSID (up to 8x ESSID), HTTPS, SSH
Firewall	Inbound/outbound firewall for IP/MAC filtering DMZ, Port forwarding, DMZ
Security Encryption	WEP 64/128/152 bits, WPA-PSK(TKIP), WPA2-PSK (TKIP and AES), Legacy 802.1X
Mechanical	
Enclosure	IP55 protection
Dimension Installation	205 mm(L) x 64 mm(W) x 61 mm(H) Pole Mount (ADC-12 Aluminum alloy)
Weight	500g
Environmental	
Operating	Temperature: -20 ~70°C Humidity: 10% ~ 95% (operating)
Storage	Temperature: -40 ~ 70°C
Approvals	
Certification	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
Warranty	3 years

Ordering Information

JetWave 2450v2 EU - Outdoor High Performance IEEE 802.11b/g/n Wireless AP, EU Adapter

JetWave 2450v2 US - Outdoor High Performance IEEE 802.11b/g/n Wireless AP, US Adapter

JetWave 2450v2 AU - Outdoor High Performance IEEE 802.11b/g/n Wireless AP, AU Adapter

Includes:

- ☐ IEEE 802.11n JetWave2450 v2
- ☐ Pole Mounting Ring
- ☐ 24VDC Power cord & PoE Injector
- ☐ Ferrite Suppression Core
- ☐ Grounding Wire