



Quick Installation Guide

JA512

802.11n 300Mbps POE, Indoor panel
type wireless access equipment

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Equipment introduction

JA512 wireless products is a new generation of fat and thin integrated wireless access point based on 802.11n technology, which is researched and developed independently by JEBI, providing the equivalent of wireless access rate 6 times higher than that of the traditional 802.11a/b/g network, to provide users with high-speed and convenient WLAN services. Wall design of POE power supply technology, easy to deploy, the utility model can be installed on the junction box without damaging the wall decoration, It is suitable for indoor wireless coverage of hotel rooms, factories, dormitories and other occasions.



Product highlights

- GB 86 panel design, you can directly replace the original network panel
- Qualcomm high performance chip solution to support maximum 300Mbps wireless rate
- Support POE power supply, simple layout
- Support local management, while supporting the JEBI wireless controller / cloud platform management and operation
- Support roaming, load balancing, spectrum navigation, illegal AP detection, fair scheduling of space resources and other wireless optimization characteristics
- Comprehensive wireless security protection, protect your network at any time

Key Featureses

1. GB 86 panel design, standard POE power supply, easy deployment

JA512 using 86 GB type panel design, can directly replace the original network panel installation without highlighting the wall, can be matched with any decoration in the room, so that the overall decoration is more concise. At the same time using standard POE powered, without need for external power supply, through the original cable power supply, you can easily complete the construction of wireless networks, breaking the old way in the past the construction of wireless network, without the need to pull the new cable, the effective use of the existing network construction, to minimize the impact brought by the new network.

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2. High performance chip solutions, faster and more stable transmission

Qualcomm high performance chip solution. Based on the IEEE802.11n standard, using MIMO technology can provide the maximum transfer rate up to 300Mbps, while the built-in antenna for wall optimization design, to achieve accurate coverage of no dead angle, speed stability is not dropped.

3. Integrated intelligent management and operation

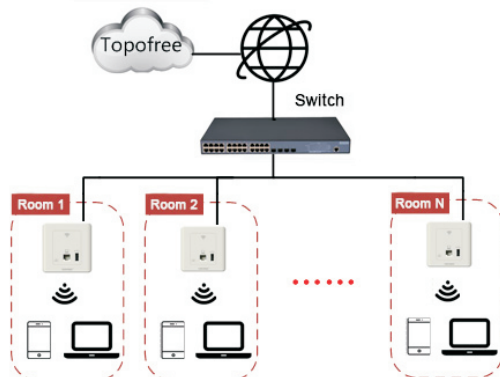
The centralized management mode, equipment through JEBCI cloud platform / wireless controller, project management based on the configuration issued a batch, batch upgrading and maintenance, greatly facilitate the user management and maintenance. At the same time, JEBCI equipment combined with cloud platform / wireless controller, you can also experience a wealth of features, such as access control, bandwidth control, roaming, spectrum navigation, load balancing, user authentication and billing, coupled with high-quality advertising push, portal, WeChat WiFi certification, passenger flow analysis and other operational features, enhance the real operation ability of users.

4. Comprehensive wireless security protection at any time to protect your network

Support WEP, WPA, WPA-PSK, WPA2, WPA2-PSK and other wireless data encryption, in addition, according to JEBCI cloud platform / wireless controller, with user access isolation, WIDS, WIPS, anti phishing AP, anti ARP spoofing and fundamentally build a truly secure wireless network for users.

Typical network diagram

JA512 with cloud platform or wireless controller, applicable to the hotel room, factory, park, dormitory, apartment, small office area and other wireless network environment.



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Product specification

PHYSICAL	
Power supply	Support 802.3af /at POE power supply
Dimension	86mm x 86mm x 34mm
Weight	0.15kg
Interface	1*10/100/1000 Upstream port
	1*10/100/1000 Downstream port
	1*8pin card seat
	1 USB power supply port
Working temperature	-10°C–45°C
Working humidity	5%-95% (non-condensing)
Power waste	<10W
Antenna	Built-in 3dBi antenna

Components and parts	
Chip	AR9341
FLASH	16MB
RAM	64MB

WIFI	
Standard	IEEE802.11b/g/n
Support rate	802.11b: 1,2,5.5,11Mbps
	802.11g: 6,9,12,18,24,36,48, 54Mbps
	802.11n: MCS0–MCS15
Spatial flow	2 *2
Maximum transmit power	50mW
Channel bandwidth	20Mhz/40Mhz
Working band	2.4GHz
SSID	8

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802.11n 300Mbps POE, Indoor panel type wireless access equipment

2G Supported channel frequency	Channel 1: 2.412GHz
	Channel 2: 2.417GHz
	Channel 3: 2.422GHz
	Channel 4: 2.427GHz
	Channel 5: 2.432GHz
	Channel 6: 2.437GHz
	Channel 7: 2.442GHz
	Channel 8: 2.447GHz
	Channel 9: 2.452GHz
	Channel 10: 2.457GHz
	Channel 11: 2.462GHz
	Channel 12: 2.467GHz
	Channel 13: 2.472GHz

PERFORMANCE	
Maximum physical transfer rate	300Mbps
Maximum number of wireless access users	64

Software specification	
Network Protocol	PPPOE
	DHCP Client
	DHCP Server
Radio frequency	Support Automatic/Manual channel adjustment
	Support manual adjustment, adjust the size of 1dBm
	Support timing on/off RF
	Support for access control based on SSID
	Support Chinese SSID
	Support limit based on SSID/STA

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Network security	Support WEP
	Support WAPI-PSK
	Support WPA/WPA2-PSK
	Support WPA/WPA2 WITH RADIUS
	User isolation
	Support MAC black and white list
	Support for SSID hide
	Illegal AP detection
	WIDS(Wireless intrusion detection system)
	WIPS(Preventing illegal device access)
Authentication billing	Support free certification
	Support SMS authentication
	Support WeChat wifi authentication
	Support key authentication
	Support portal authentication
	Support wifidog authentication
Local access management	WEB management mode (Http/Https)
	Snmpv1,v2c,v3
	Support telnet and SSH remote login query
	Support reverse SSH function
Deployment mode	Support local management
	Support centralized management
	Support routing mode,AP mode,Relay mode
	Support IPv4 protocol
AC discovery mechanism	Two layer broadcast discovery
	Static IP address three layer discovery
	DHCP Option43 discovery
	DNS domain name discovery

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Configuration management	Support upgrade
	Support remote batch update,restart
	Support local survival mode
	Support Syslog management
	Support NTP time synchronization
	Export and recovery
WLAN comprehensive application	Terminal rate set optimal allocation
	AP minimum contract rate configuration
	Weak signal access is prohibited
	Seamless roaming
	Spectrum navigation function
	Load balancing function
	Multicast application optimization
	Wireless location
	Electronic fence
	Passenger flow analysis

设备简介

JA512无线产品是JEBI自主研发的新一代基于802.11n技术的胖瘦一体化无线接入点,可提供相当于传统802.11a/b/g网络6倍以上的无线接入速率,为用户提供高速便捷的WLAN服务.入墙式设计以及POE供电技术,部署便捷,可以在不破坏墙面装修的情况下安装在接线盒上,适用于酒店房间、厂园宿舍等场合的室内无线覆盖.



产品亮点

- 国标86型面板设计,可直接替换原有网络面板
- 高通高性能芯片方案,支持最高300Mbps无线速率
- 支持POE供电,布局更简单
- 支持本地管理,同时支持JEBI无线控制器/云平台管理与运营
- 支持漫游、负载均衡、频谱导航、非法AP检测、空间资源公平调度等无线优化特性
- 全面的无线安全防护,随时保护您的网络

产品特性

1. 国标86型面板设计,标准POE供电,部署方便快捷

JA512采用国标86型面板设计,可直接替换原有网络面板安装而不突出墙面,能够与房间内的任何装饰相匹配,使整体装修更简洁.同时采用标准POE供电,无需外接电源,通过原有网线供电即可轻松完成无线网络搭建,打破了以往无线网络建设的老旧方式,无需再拉新的网线,有效利用了既有的网络建设,最大限度减少网络新建带来的影响.

2. 高性能芯片方案,传输更快更稳定

高通高性能芯片方案.基于IEEE802.11n标准、采用MIMO等技术可提供最高达300Mbps的传输速率,同时内置天线针对墙面优化设计,实现精准覆盖无死角,稳定高速不掉线.

3. 一体化智能管理和运营

集中管理模式下,设备通过JEBI云平台/无线控制器,基于项目统一管理、配置批量下发、批量升级维护等,极大地便利了用户管理及维护.同时设备结合JEBI云平台/无线控制器,还可以体验丰富的功能特性,如接入控制、带宽控制、漫游、频谱导航、负载均衡、用户认证和计费等等,再加上优质的广告推送、portal门户定制、微信连wifi认证、客流分析等运营类的特性功能,提升用户实体运营能力.

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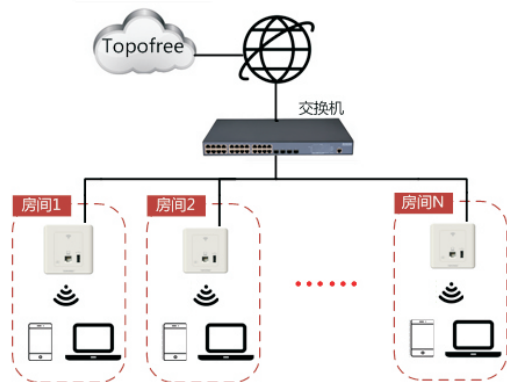
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4. 全面的无线安全防护, 随时保护您的网络

支持WEP、WPA、WPA-PSK、WPA2、WPA2-PSK等无线数据加密方式, 此外, 结合敦崇云平台/无线控制器, 具备用户访问隔离、WIDS、WIPS、防钓鱼AP、防ARP欺骗等安全防护功能, 从根本上为用户构建真正安全可靠的无线网络.

典型组网图

JA512配合云平台或无线控制器组建, 适用于酒店房间、厂园宿舍、公寓、小型办公区等无线网络环境.



产品规格

物理 PHYSICAL	
供电	支持802.3af /at POE供电
尺寸	86mm x 86mm x 34mm
重量	0.15kg
接口	1个10/100Mbps 上行口
	1个10/100Mbps 下行口
	1个8pin卡线座
	1个USB供电口
工作温度	-10°C-45°C
工作湿度	5%-95% (非冷凝)
功耗	<10W
天线	内置3dBi天线

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元器件	
芯片	AR9341
FLASH	16MB
RAM	64MB

无线 WIFI	
标准	IEEE802.11b/g/n
支持速率	802.11b: 1,2,5.5,11Mbps
	802.11g: 6,9,12,18,24,36,48,54Mbps
	802.11n: MCS0~MCS15
空间流	2 *2
最大发射功率	50mW
信道带宽	20Mhz/40Mhz
工作频段	2.4GHz
SSID个数	8个
2G支持的信道频率	信道1: 2.412GHz
	信道2: 2.417GHz
	信道3: 2.422GHz
	信道4: 2.427GHz
	信道5: 2.432GHz
	信道6: 2.437GHz
	信道7: 2.442GHz
	信道8: 2.447GHz
	信道9: 2.452GHz
	信道10: 2.457GHz
	信道11: 2.462GHz
	信道12: 2.467GHz
	信道13: 2.472GHz

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性能 PERFORMANCE	
最高物理传输速率	300Mbps
支持用户数	64个

软件规格	
网络协议	PPPOE
	DHCP Client
	DHCP Server
射频	支持自动、手动信道调整
	支持手动功率调整, 调整粒度为1dBm
	支持定时开启/关闭射频
	支持基于SSID接入用户数控制
	支持中文SSID
网络安全	支持基于SSID/STA的限速
	支持WEP
	支持WAPI-PSK
	支持WPA/WPA2-PSK
	支持WPA/WPA2 WITH RADIUS
	用户隔离
	支持基于MAC黑白名单
	支持对SSID的隐藏
	非法AP检测
	WIDS (无线入侵检测)
WIPS (防止非法设备接入)	
认证计费	支持免认证
	支持手机短信认证
	支持微信连wifi认证
	支持一键认证
	支持portal认证
	支持wifidog认证

本地访问管理	WEB 管理方式 (Http/Https)
	Snmpv1,v2c,v3
	支持telnet与SSH方式远程登录查询
	支持反向SSH功能
部署方式	支持本地管理
	支持集中管理
	支持路由模式、Client模式、AP模式、中继模式
	支持IPv4协议
AC发现机制	二层广播发现
	静态IP地址三层发现
	DHCP Option43 发现
	DNS 域名发现
配置管理	支持断点续传升级
	支持远程批量升级、重启
	支持本地存活模式
	支持Syslog日志管理
	支持NTP时间同步
	配置导出与恢复
WLAN 综合应用	终端速率集优化配置
	AP最低发包速率配置
	弱信号禁止接入
	无缝漫游
	频谱导航功能
	负载均衡功能
	组播应用优化
	无线定位
	电子围栏
	客流分析

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