AP221n Wi-Fi access point

Economic indoor access point

Introduction

The Teldat AP221n is a professional access point designed for scenarios that require single-band Wi-Fi connections. It offers an elegantly designed for mounting on the wall or ceiling and blends in well with the environment thanks to the built-in antennas and its ability to deactivate the signaling LEDs.

It is a flexible device that can operate as a WLAN controller for five additional access points, thus minimizing the hardware investment necessary to cover the connection requirements of an office, room or restaurant. It also has bridge-link functionality, thus enabling connectivity to be extended to isolated areas

Product Highlights

- ► Optimal device for 2.4 or 5 GHz scenarios

- ► Standalone or managed operating mode

- ► WLAN controller 5+1 APs in master-AP mode

- ► Two Gb Ethernet LAN ports with PoE

- ► Internal antennas and wall/ceiling mounting

- ► Multi-SSID (up to 16) and VLAN support

- ► Energy saving standby mode

Product Description

The Teldat AP221n is an access point featuring an 802.11abgn radio module and a Gigabit LAN interface, with built-in PoE, that offers professional connection services to clients who want simple and efficient access to their network or the Internet. The AP221n can operate as a standalone AP configured from its web interface, as a WLC managed by a Teldat router, or integrated into the Colibri NetManager centralized management platform for optimal management of a remote office park. It provides a means to control the number of connected users, limit bandwidth, and supports up to 16 SSIDs with associated VLANs for service separation. In terms of security mechanisms, it provides 802.11i for user authentication, ACLs and rogue AP/client detection.

Competitive Advantage

Economical range of professional APs	The AP221n is an access point for offices, hotels and restaurants that require a professional Internet connection.
Optimization functions	It supports airtime fairness, client load balancing, and per-client and per-SSID client (up to 250) and bandwidth limitation.
Simple and efficient administration	Web configuration (http/https), telnet, SSH, SNMP, CAPWAP support from WLC in Teldat router, Dime Manager (up to 50 devices), Colibri NetManager.
Wireless LAN controller mode included	Master-AP mode allows you to manage and configure up to 5 additional access points

HARDWARE TECHNICAL FEATURES

Interfaces and connectors

LAN: 1 x 10/100/1000 Mbps, auto MDI/MDIX, RJ-45 connector
Wi-Fi: 1 x 802.11abgn (2.4/5 GHz) radio module, 2x2 MIMO
Kensington compatible security protection

Antennas

Built-in dual band (2.4/5 GHz) antennas
2.4 GHz: 4 dBm gain, 5 GHz: 3 dBm gain

Power supply

Optional external line: 9 V/1,3A DC; 100-240 AC
European connector
Optional PoE injector: 802.3af or 803.3at.

Dimensions and casing

Approx. 15.9 cm x 14.5 cm x 4.3 cm (width x depth x height)
Lightweight plastic casing

Environmental specifications and consumption

Operating temperature range: 0 to 40 °C; Storage: -10 to 70°C
Relative humidity: 10 to 95 % (without condensation)
Max: 6.4 W. Standby: < 4.5 W

SOFTWARE TECHNICAL FEATURES

Wi-Fi interface

Automatic transfer rate and channel selection
Multi-SSID, up to 16 per radio, each with a MAC address
SSID broadcast, allowed/blocked

Wi-Fi security and authentication

Open, WEP64/128, WPA Personal/Enterprise, WPA2 Personal/Enterprise
802.1x/EAP-MD5, 802.1x/EAP-TLS, 802.1x/EAP-TTLS, 802.1x/EAP-PEAP
Key Management, PSK/TKIP Encryption, AES Encryption

Management/Administration

HTTP/HTTPS, telnet, SSH, Dime Manager, Colibrí NetManager
SNMP(v1, v2, v3), traps (v1, v2, v3), SNMP ACLs
Configuration backup/restoration

Supervision

Syslog client with different message severity levels
E-mail alerts
Programming reset, interface activation/deactivation, SSIDs, etc.

VLANs

Supports IEEE 802.1q
Up to 32 VLANs

Wi-Fi optimization

Airtime fairness, client load balancing & limitation, IAPP roaming(802.11f)
Bandwidth limitation per user and SSID
WMM 802.11e QoS

Detection mechanisms

MAC filtering
WIDS(Wireless Intrusion Detection System)
WIPS(Wireless Protection Detection System)

Operating modes

Standalone WLAN AP, managed by a WLC or Colibri NetManager
Point-to-point or point-to-multipoint WLAN bridge
WLAN Client

Energy management

Reduction of PoE consumption during periods without activity (802.3az)
Change to 1x1 MIMO if there are no connected clients
WMM 802.11e Power Save

Managed by an external WLC or AP-master

CAPWAP(DHCP option RFC1517)
As Master-AP, it manages up to 5 additional APs
Monitoring and statistics of managed APs

ADDITIONAL TECHNICAL FEATURES

Operating mode functions: WLAN client

DHCP client, DHCP server, DHPC relay
VPN: IPSec, L2TP, PTP, GRE
WEP60/128, WPA/WPA2 personal security

Certifications

WPA2 Personal security
CE configuration

Operating mode functions: WLAN bridge

Configurable roaming (off, slow, normal, fast, custom)
It can act as master or client

NTP client, NTP server, manual configuration

R&TTE Directiva 1999/5/EG; EN 60950-1 (IEC60950); EN 300 328
EN 301 489-17; EN 301 489-1; EN 301 893