

### Introduction

The Teldat API221n is an industrial access point housed in an IP40 protected aluminum casing, design to meet the specific dust and temperature requirements typical of workshops, warehouses and facilities with special environmental conditions. It is equipped with external antennas and can be mounted on the wall or on a DIN rail using the supplied brackets.

It is a flexible device and can be used either as a standalone WLAN controller for five additional access points, providing an excellent integrated solution for industrial areas, or centrally managed from Colibri NetManager.



### Product Highlights

- ▶ Optimal for 2.4 or 5 GHz scenarios
- ▶ Multi-SSID (up to 16) and VLAN support
- ▶ WLAN controller 5+1 APs in master-AP mode
- ▶ Two Gb Ethernet LAN ports (1 PoE)
- ▶ IP40 aluminium casing (indoor)
- ▶ Temperature range (-20 to 50° C)
- ▶ DIN track for mounting on a panel or wall

### Product Description

The Teldat API221n is an industrial access point featuring an 802.11abgn, 2.4/5 GHz radio module with 2x2 MIMO capable of reaching up to 300 Mbps bandwidth. The two Gigabit LAN interfaces and built-in PoE allow it to offer connectivity services in professional settings with unfavorable environmental conditions.

The API221n supports advanced monitoring from its graphical interface, reporting incidents through SNMP traps/Syslog events and even sending alarms by e-mail. It provides a means to control the number of connected users, limit broadband, and supports up to 16 SSIDs with associated VLANs for service separation. In terms of security mechanisms, it provides 802.11i for user authentication (WPA/WPA2 Enterprise), ACLs and WIPS/WIDS.

### Competitive Advantage

Range of APs for industrial environments	Access point that has been developed for harsh industrial environments and other places that require rugged equipment capable of handling special conditions.
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.
WLAN controller included	Master-AP mode allows you to manage and configure up to 5 additional access points.

# HARDWARE TECHNICAL FEATURES

## Interfaces and connectors

LAN: 2x10/100/1000 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

Two external dual band (2.4/5 GHz) antennas with RSMA  
2.4/5 GHz antenna gain: 2 dBi

## 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. 15.0 cm x 12.0 cm x 4.1 cm (width x depth x height)  
Resistant aluminium casing  
IP40 certification

## Environmental specifications and consumption

Operating temperature range: -20 to 50 ° C  
Relative humidity: 10 to 95 % (without condensation)  
Maximum consumption: 6.4 W

# SOFTWARE TECHNICAL FEATURES

## Wi-Fi interface

Automatic transfer rate and channel selection  
MultiSSID, up to 16 per radio with MAC address for each one  
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, Colibri 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.

## 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

## Wi-Fi optimisation

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

## VLANS

Supports IEEE 802.1q  
Up to 32 VLANS

# ADDITIONAL TECHNICAL FEATURES

## Operating mode functions: WLAN client

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

## Certifications

WPA2 personal and DFS security for 5GHz  
Point-to-point or point-to-multipoint connections (8 levels)  
CE configuration

## Operating mode functions: WLAN bridge

Configurable roaming (off, slow, normal, fast, custom)  
Complete monitoring: link activation, signal/noise ratio, speed, etc.  
It can act as master or client

## NTP client, NTP server, manual configuration

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

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