

### Introduction

The bintec W2022ac is an access point based on the latest 802.11ac that supports MU-MIMO. This allows single-antenna mobile devices to optimize all the transmission streams of the access point and doubles the quantity of devices simultaneously connected compared to 802.11ac first-generation. Older devices can still connect thanks to WPA3 /2 mode. When it comes to installation, this is child's play using the WLAN-Controller integrated in almost all CIT Routers or benefiting from the new SD-WAN solution be.SDx.

### Product Highlights

- ▶ 802.11ac/Wi-Fi 5 access point with MU-MIMO
- ▶ 867Mbps @ 5GHz and 400Mbps \* @ 2.4GHz
- ▶ Simultaneous operation in the 2.4 and 5 GHz band
- ▶ Flexible management solutions
- ▶ Easiest ceiling mounting on system ceilings

### Interfaces

### W2022ac

2 x 10/100/1000 Mbps LAN interfaces	Autosensing, auto MDI/MDI-X
802.11bgn (2,4GHz) radio module	2x2 MIMO
802.11ac (5GHz) radio module	2x2 MU-MIMO

### Competitive Advantage

Communication Technology	802.11ac/Wi-Fi 5 MU-MIMO
Optimized software	Supporting many concurrent users with good performance
Simple, efficient administration	Web configuration (http/https), CAPWAP support from WLAN Controller in Teldat router, SDWAN be.SDx
Easy Installation	Ceiling mount kit, Powered over PoE IEEE 802.3af, compatible with 802.3at PoE injectors

# Scenarios

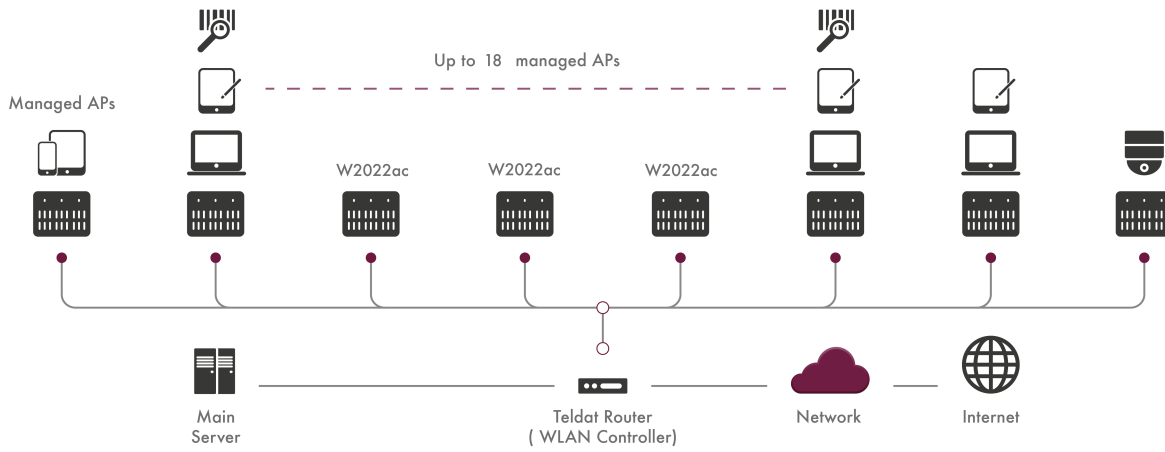


Figure: W2022ac AP operating mode controlled by a router

# Key Features

## HARDWARE TECHNICAL FEATURES

### Interfaces and connectors

LAN/WAN: 2 x 10/100/1000 Mbps Ethernet, autosensing, auto MDI/MDI-X  
1 x 802.11bgn (2.4 GHz) 2x2MIMO, 1 x 802.11ac/an (5 GHz) 2x2 MU-MIMO

### Power supply

External wall power supply 230V / 12V DC, 1A  
high efficient switching power supply  
PoE : IEEE 802.3af, compatible with 802.3at PoE injectors

### Environmental Specifications and consumption

Temperature operating: 0°C to 40°C; storage: -10°C to 70°C  
Relative humidity 10 to 95% (non condensing)  
Max: 8.95 Watt

### Antennas

Integrated two antenna elements for each radio  
2 dBm gain @ 2,4 GHz; 3 dBm gain @ 5 GHz.

### Dimensions and casing

Approx. 190 mm x 190 mm x 38 mm (width x depth x height)  
Approx. 505 g  
Status LEDs, Activity for WLAN1, WLAN2 and Ethernet, LEDs defeatable

## SOFTWARE TECHNICAL FEATURES

### Wi-Fi Interface

Beamforming, Low SNR threshold management, Data rate trimming, Client Band  
Broadcast SSID  
IGMP Snooping, Multicast to Unicast converting of WLAN data.

### IEEE802.11i Authentication and encryption

802.1x/EAP-MD5, 802.1x/EAP-TLS, 802.1x/EAP-TTLS, 802.1x/EAP-PEAP, key manag  
OWE-Transition, OWE, Open

### Detection mechanisms

MAC address filter for WLAN clients (white list)  
WIDS (Wireless Intrusion Detection System); Rogue AP, Neighbor AP

### Operating Modes

Standalone AP  
Managed by a Teldat router  
Managed from beSDx

### Energy Management

MIMO 1x1 shift down  
802.3az support, U-APSD: Unscheduled Automatic Power Save Delivery  
LED Mode; Status, Flashing, Off

### Wi-Fi optimization

Airtime Fairness, Client overload protection; Clients shifting between APs  
Client Band Select, Data rate trimming, Fast BSS Transition 802.11r 802.11k/v/r, IAPP, support according 802.11f, Low SNR threshold management

### WLAN Security Modes

WPA3-SAE, WPA2/3-PSK, WPA2-PSK, WPA1/2-PSK, WPA-PSK, WPA-Enterprise,  
WPA3-Enterprise, WPA2-Enterprise, WPA2/3-Enterprise, WPA1/2-Enterprise,  
Up to 8 different RADIUS servers for WPAX Enterprise to individuals SSIDs

### Management/administration

Cloud Management via beSDx, ZTP,  
WLAN Controller; Discovery protocol, Active/Deactive WLAN SSID  
Background scanning, Performance Monitoring

### Power optimization

U-APSD

### VLANs

Per SSID one VLAN ID available.  
Static VLAN configuration according IEEE 802.1q; up to 16 VLANs supported.  
Network segments on layer2 possible.

## ADDITIONAL TECHNICAL FEATURES

### Certifications

Directive 2014/53/EU, 2011/65/EU, 2009/125/EU, EN 60950-1; EN 62311;  
EN 301489-1; EN301489-17; EN 300 328; EN 301893; EN 50581;  
EN 60601-1-2 (Medical devices - part 1-2)

### Open Source Information at bintec's webpage

<https://www.bintec-elmeg.com>

### Additional components

MS5500002091 Power supply 12V with EU socket  
MSXXXXXXXX Power Supply Unit - Interchangeable plug (on development)  
MS5530000338 Gigabit PoE Injector  
MS5520000163 Ceiling mounting W2022ac

# FLEXIBLE

## COMMUNICATIONS SOLUTIONS

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## W2022ac MU-MIMO WLAN Access Point

Indoor access point



**Teldat is a leading provider in Enterprise Communications equipment and Services for the top corporate to mid-sized and SME markets.**

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 **Teldat** | **GROUP** | Headquarters

#### Spain

Teldat S.A.  
Parque Tecnológico de Madrid  
Tres Cantos - 28760  
Madrid (Spain)  
Phone: +34 91 807 6565  
info@teldat.com

#### Germany

bintec elmeg GmbH  
Suedwestpark 94. 90449  
Nuremberg (Germany)  
Phone: +49 911 9673 0  
info@bintec-elmeg.com

Our sales offices contact details are on [www.teldat.com](http://www.teldat.com)



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