

# W2044ax

## W2044ax Wi-Fi 6 WLAN High-End Access Point

### Introduction

With the W2044ax you get a very powerful access point of the current Wi-Fi 6 generation. The W2044ax impresses with its high performance, especially in high density application to serve many WLAN clients. In normal environments with only a few WLAN clients, the W2044ax impresses with its high transmission capacity. This is made possible by the high efficiency of the Wi-Fi 6 standard in combination with the MU-MIMO 4x4 technology and numerous other functions for optimal use of the frequency spectrum.

### Product Highlights

- Wi-Fi 6 Multi-User-MIMO 4x4 for up- and down link
- 2,4 Gbit/s @ 5GHz and 1,1 Gbit/s\* @ 2,4 GHz
- 802.11ax technology for 2,4 and 5 GHz band
- 8 antennas for optimized coverage and performance
- Integrated Bluetooth for IoT applications
- Easiest ceiling mounting on system ceilings
- Up to 512 simultaneous stations per radio module

### Interfaces

LAN / WAN	100/1000/2500 Mbps Ethernet
Radio 1	IEEE 802.11b/g/n/ax MIMO 4x4
Radio 2	IEEE 802.11ax/ac/n/a MU-MIMO 4x4
Bluetooth	Bluetooth 4.2



## Competitive Advantage

State of Art Wi-Fi Technology	Dual-Radio 4x4 MU-MIMO 802.11ax Wi-Fi 6 with high level security WPA3
Attractive Price-Performance Ratio	Competitive price reaching up to 3,6 Gbps aggregated PHY bitrate
Simple, efficient administration	Web configuration (http/https), CAPWAP support from WLAN Controller in Teldat router, Teldat's Cloud based management
Easy Installation	Ceiling mount kit, Powered over PoE+ IEEE 802.3at, compatible with 802.3at PoE injectors or PSU

## Key Features

- **Use cases** Wi-Fi LAN connectivity for high density environments Wi-Fi LAN connectivity for critical scenarios dependant on latency or high capacity
- **Quality of Service** Traffic prioritization by means of categories based on 802.11e/WMM
- **Optimized roaming** 802.1k, 802.1v, 802.1r together provide with a fast and transparent roaming to the user
- **Security** Most updated encrypted and secured with WPA3- Personal/Enterprise, Rogue APs detection, WIDS, 802.1x
- **Very easy configuration** - Centralized mode: Zero Touch Provisioning from Cloud Net Manager - Local mode: WLAN Controller detects and configures the new Access Point connected to the LAN - Manual Mode: Simple GUI

## HARDWARE TECHNICAL FEATURES

### Interfaces and connectors

1 x 100/1000/2500 Mbps Ethernet twisted pair, autosensing, auto MDI/MDI-X

1 x Radio module IEEE 802.11b/g/n/ax MIMO 4x4

1 x Radio module IEEE 802.11ax/ac/n/a MU-MIMO 4x4

### Power supply

External wall power supply 230V / 12V DC, 3A

The wall adaptor is a accessory and not include the shipment

Power-over-Ethernet according 802.3at

### Environmental Specifications and consumption

Temperature operating: 0°C to 45°C; storage: -10°C to 70°C;

rel. humidity 10 to 95% (non condensing)

Max power consumption: t.b.d

### Antennas

Integrated single band MIMO antenna, four antenna elements for each radio

2 dBm gain @ 2,4 GHz; 3 dBm gain @ 5 GHz

### Dimensions and casing

Approx. 216 mm x 216 mm x 51 mm (width x depth x height)

Status, Activity for WLAN1, WLAN2 and Ethernet, LEDs defeatable

## SOFTWARE TECHNICAL FEATURES

### Wi-Fi Interface

Airtime Fairness, Client Band Select, Client Management, Data rate trimming

Client Management 802.11k/v, Low SNR threshold management

Seamless roaming with IAPP, Fast BSS Transition 802.11r

### WLAN Security Modes

WPA3-SAE; WPA2/3-PSK; WPA2-PSK; WPA1/2-PSK; WPA-PSK; WPA3-Enterprise

WPA2/3-Enterprise; WPA2-Enterprise; WPA1/2-Enterprise; WPA-Enterprise

Open, OWE; OWE-Transition

### Management/administration

Graphical user interface

Managed by a local WLAN Controller, works as WTP

Supported Cloud Management Systems

### Energy Management

MIMO 1x1 shift down

802.3az support

The LEDs has three operation mode: Status, Flashing, Off

### IEEE802.11i Authentication and encryption

802.1x/EAP-MD5, 802.1x/EAP-TLS, 802.1x/EAP-TTLS,

802.1x/EAP-PEAP, key management

### Detection mechanisms

MAC address filter for WLAN clients (white list)

WIDS (Wireless Intrusion Detection System); Rogue AP, Neighbor AP

### Power optimization

TWT

### VLANs

Network segments on layer2 is possible

For each SSID one VLAN ID is available

Static VLAN configuration according IEEE 802.1q

## ADDITIONAL TECHNICAL FEATURES

### Certifications

Directive 2014/53/EU, 2011/65/EU, Regulation (EC) No.1907/2006:2006-12

EN 300 328; EN 301489-1; EN301489-17; EN 301893; EN 62311; EN 50585;

EN 60601-1-2 (Medical devices - part 1-2)

### Open Source Information at bintec's website

### Additional components

MS5999027522 Power supply 12V with EU socket

MS5520000163 Ceiling mounting W2022ac/W2022ax/W2044ax

### Scenarios

