

Introduction



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

Product Description

The W2044ax transmits simultaneously in the 2.4 GHz and 5 GHz band in the 802.11ax standard. In the 5 GHz band, a physical bandwidth of up to 2402 Mbit / s @ 80MHz is achieved and in the 2.4 GHz band, a physical bandwidth of up to 1148 Mbit / s @ 40MHz or 874 Mbit / s @ 20MHz is achieved.

The W2044ax can of course be managed via the WLAN controller or via our cloud-based solution.

The W2044ax offers security at the highest level with the integration of the latest WPA3 security standard.

A ceiling bracket is available for installation on suspended system ceilings without drilling or dowels, or direct installation on wood or concrete ceilings. The optional ceiling bracket is not required for mounting on the wall. Customers who move from our Wi-Fi 5 Access Point W2022ac can continue to use the previous drill holes and ceiling bracket, making the upgrade to the new wireless standard child's play.

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

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

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