

Product: [DAP640-RW](#)

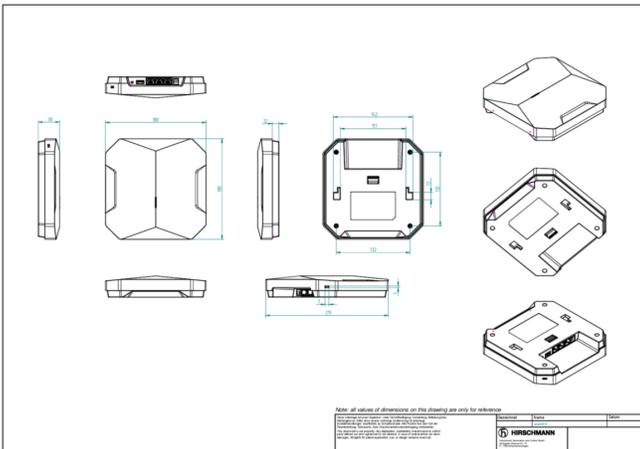
Dragonfly Indoor Wi-Fi 6 (802.11ax) Access Point



Product Description

Dragonfly Indoor, dual radio, 5 GHz 802.11ax 4x4:4 and 2.4 GHz 802.11ax 2x2:2, built-in antennas; integrated BLE/Zigbee, scanning and security function

Technical Drawing



Technical Specifications

Product description

Type:	DAP640
Name:	DAP640-RW
Part Number:	942999304
Port type and quantity:	1 x 10/100/1000/2500Mbps RJ45 port, Eth0, PoE PD (IEEE 802.3at); 1 x 10/100/1000Mbps RJ45 port, port, Eth1, PoE PD (IEEE 802.3at); 1 x RJ45 Console Port; 1 x USB 2.0 Type-C; 1 x Reset button; 1 x Kensington security slot
Radio protocol:	IEEE 802.11b; 802.11a/g/n/ac; 802.11ax; up to 2.975Gbps (2.402Gbps in 5GHz and 573Mbps in 2.4GHz) data rate; BLE5/Zigbee (802.15.4), scanning and security function

Radio technology

Antenna connector:	Built-in 2x2:2 @ 2.4GHz, 4x4:4 @ 5GHz, BLE antenna, Four integrated dual-band downtilt omni-directional antennas for 4x4 MIMO with peak antenna gain of 4.7dBi in 2.4GHz and 4.8dBi in 5GHz
Frequency band:	2.400 to 2.4835 GHz; 5.150 to 5.250 GHz; 5.250 to 5.350 GHz; 5.470 to 5.725 GHz; 5.725 to 5.850 GHz *available channels: Dependent on configured regulatory domain
Modulation:	802.11b: BPSK, QPSK, CCK; 802.11a/g/n/ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM; 802.11ax: BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
RF Optimization:	Receive sensitivity (per chain): 1Mb/s@2.4GHz=-99; 11Mb/s@2.4GHz=-90; 6Mb/s@2.4GHz=-93 & @5GHz=-93; 54Mb/s@2.4GHz=-77 & @5GHz=-77; HT20 (MCS0/8)@2.4GHz=-93 & @5GHz=-93; HT20 (MCS7/15)@2.4GHz=-76 & @5GHz=-74; HT40 (MCS0/8)@2.4GHz=-91 & @5GHz=-90; HT40 (MCS7/15)@2.4GHz=-74 & @5GHz=-71; VHT20 (MCS0)@2.4GHz=-93 & @5GHz=-93; VHT20 (MCS8)@2.4GHz=-72 & @5GHz=-70; VHT40 (MCS0)@2.4GHz=-91 & @5GHz=-90; VHT40 (MCS9)@2.4GHz=-68 & @5GHz=-66; VHT80 (MCS0)@5GHz=-87; VHT80 (MCS9)@5GHz=-62; HE20 (MCS0)@2.4GHz=-94 & @5GHz=-93; HE20 (MCS11)@2.4GHz=-65 & @5GHz=-65; HE40 (MCS0)@2.4GHz=-91 & @5GHz=-91; HE40 (MCS11)@2.4GHz=-62 & @5GHz=-62; HE80 (MCS0)@5GHz=-88; HE80 (MCS11)@5GHz=-59 Maximum transmit power (per chain)*: 1Mb/s@2.4GHz=18 dBm; 11Mb/s@2.4GHz=18 dBm; 6Mb/s@2.4GHz=17 dBm & @5GHz=18 dBm; 54Mb/s@2.4GHz=16 dBm & @5GHz=16 dBm; HT20 (MCS0/8)@2.4GHz=17 dBm & @5GHz=17 dBm; HT20 (MCS7/15)@2.4GHz=14 dBm & @5GHz=15 dBm; HT40 (MCS0/8)@2.4GHz=17 dBm & @5GHz=17 dBm; HT40 (MCS7/15)@2.4GHz=14 dBm & @5GHz=15 dBm; VHT20 (MCS0)@2.4GHz=17 dBm & @5GHz=17 dBm; VHT20 (MCS8)@2.4GHz=14 dBm & @5GHz=15 dBm; VHT40 (MCS0)@2.4GHz=17 dBm & @5GHz=17 dBm; VHT40 (MCS9)@2.4GHz=14 dBm & @5GHz=15 dBm; VHT80 (MCS0)@5GHz=17 dBm; VHT80 (MCS9)@5GHz=15 dBm; HE20 (MCS0)@2.4GHz=17 dBm & @5GHz=17 dBm; HE20 (MCS11)@2.4GHz=12 dBm & @5GHz=13 dBm; HE40 (MCS0)@2.4GHz=17 dBm & @5GHz=17 dBm; HE40 (MCS11)@2.4GHz=12 dBm & @5GHz=13 dBm; HE80 (MCS0)@5GHz=17 dBm; HE80 (MCS11)@5GHz=13 dBm *Note: Maximum capability of the hardware provided (excluding antenna gain). Maximum transmit power is limited by local regulatory setting

Power requirements

Operating Voltage:	Supports direct DC power and Power over Ethernet (PoE PD)
Operating voltage DC:	Direct DC source: 48V DC nominal, ± 5%
Power consumption:	24.8 W

Security features

Authentication:	802.11i, Wi-Fi Protected Access 2 (WPA2), WPA, WPA3 (WPA3-Personal WPA3 -Enterprise); 802.1X; Portal page authentication; Advanced Encryption Standard (AES), Temporal Key Integrity Protocol (TKIP)
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Software

Management:	Internal User Database, Zero-touch provisioning (ZTP), System log report, SNMP Trap Notification with DAC software, Floor plan and heat map with DAC software, Industrial HiVision
Security:	Captive Portal, Radius Client, Wireless QoS, Client sticky avoidance, User behavior tracking, White / black list, ACL, Rogue AP location and containment, Wireless Attack Detection
Software features:	Auto channel selection; Auto transmit power control; Bandwidth control per SSID; L2 roaming; L3 roaming with DAC software; Band steering; Client smart load balance; NTP server client; Wireless MESH P2P/P2MP

Ambient conditions

Operating temperature:	0-50 °C
Storage/transport temperature:	-40°C to +70 °C
Relative humidity (non-condensing):	5 - 95 %

Mechanical construction

Width:	180 mm
Height:	36 mm
Depth:	180 mm
Weight:	0.8 kg
Mounting:	Ceiling, wall
Protection class:	IP41

Approvals

Safety of industrial control equipment:	EN 62368-1
FCC:	Yes
UL/cUL:	Yes
CE:	Yes
RoHS Compliant:	RoHS ((EU) 2015/863) and RoHS (GB/T26572-2011) compliant
Radio:	EN 300 328 (2.4 GHz), EN 301 893 (5 GHz), EN 302 502 (5.8 GHz), EN 301 489-1, EN 301 489-17

Scope of delivery and accessories

Accessories to Order Separately:	DC power adapter
Scope of delivery:	Installation guide, mounting kit (AP-MNT-IN-W)

History

Update and Revision:	Revision Number: 0.10 Revision Date: 09-07-2023
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