

HIGHLIGHTS

FortiAP 24D

The FortiAP 24D is a cost-effective single radio 802.11n AP, designed for non-mission critical applications in low density indoor environments like small branch offices.

The integrated switch-ports allow you to connect additional wired devices directly to the AP, such as PCs or printers.



 **802.11n | 2.4/5 GHz Radio | 2 Internal Antennas**

 **2x2 MIMO | Up to 300 Mbps**

SPECIFICATIONS

FORTIAP 24D	
Hardware	
Hardware Type	Indoor
Number of Radios	1
Number of Antennas	2 Internal
Peak Antenna Gain	4.6 dBi for 2.4 GHz, 6.3 dBi for 5 GHz
Frequency Bands (GHz) *	2.400–2.4835, 5.150–5.250, 5.250–5.350, 5.470–5.725, 5.725–5.850
Frequency of Radio 1	2.4 GHz b/g/n or 5 GHz a/n
Frequency of Radio 2	–
Throughput	Up to 300 Mbps
Tx/Rx Streams	2x2 MIMO 2 spatial stream
Ethernet Ports	1x GE RJ45 WAN port, 4x FE RJ45 LAN ports
USB Port	1x Type A
Serial Console Port	–
Power over Ethernet (PoE)	IEEE 802.3af (12.9 W)
WME Multimedia Extensions	Yes (4 priority queues for voice, video, data and background traffic)
Simultaneous SSIDs	8 (7 if background scanning is enabled)
EAP Type(s)	EAP-TLS, EAP-TTLS/MSCVAP2, EAPV0/EAP-MSCHAPV2, PEAPv1/EAP-GTC EAP-SIM, EAP-AKA, EAP-FAST
User/Device Authentication	WPA™ and WPA2™ with 802.1x or Preshared key, WEP and Web Captive Portal, MAC blacklist & whitelist
Maximum Tx Power	18 dBm (63 mW) *
Physical Security	–
Mean Time Between Failures	> 10 years
IEEE Specifications	802.11a, 802.11b, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11n, 802.1x
802.11ac 80MHz Channel	–
802.11n Features	20 MHz and 40 MHz High-Throughput (HT) Support Increased maximum frame transmission by incorporating A-MPDU and A-MSDU Packet Aggregation Conserve power via Dynamic MIMO power save
Advanced 802.11n to enhance rate-over-range including:	Low-density parity check (LDPC) encoding Maximum likelihood demodulation (MLD) Maximum Ratio Combining (MRC) for improved receiver performance

FORTIAP 24D	
Mounting Options	Wall
Included Accessories	Wall mount kit
FortiPresence Capable	Yes
Wireless Monitoring Capabilities	
Frequencies scanned	2.4 and 5 GHz
Background scan with client access on 2.4 and 5 GHz	–
Full-time scan as dedicated monitor	Yes
Full-time scan with client access on 5G GHz	–
Dimensions	
Length x Width x Height	6.69 x 4.37 x 1.02 inches (17.0 x 11.1 x 2.6 cm)
Weight	0.5 lb (0.225 kg)
Package (shipping) Weight	1.1 lb (0.5 kg)
Environment	
Power Supply	Adapter Input: 100–240V, 50/60Hz, 0.4A Output: 12V DC, 2A
Power Consumption (Average)	3 W
Power Consumption (Maximum)	3.36 W
Humidity	5–90% non condensing
Operating Temperature	32–104°F (0–40°C)
Storage Temperature	–4–140°F (–20–60°C)
Directives	Low Voltage Directive • RoHS
Warranty	
Limited Lifetime Warranty	Yes

* Frequency selection and power may be restricted to abide by regional regulatory compliance laws.

RF RX/TX PERFORMANCE TABLE

FORTIAP 24D				
		RADIO 1		RADIO 2
802.11 a/g	5 GHz Tx Power (dBm)	Rx Sensitivity	2.4 GHz Tx Power (dBm)	Rx Sensitivity
6 Mbps	20	-94	20	-88
9 Mbps	19	-92	20	-88
12 Mbps	19	-90	20	-86
18 Mbps	19	-83	20	-84
24 Mbps	19	-80	20	-80
36 Mbps	18	-77	19	-77
48 Mbps	18	-76	19	-74
54 Mbps	17	-73	18	-72
802.11n HT20				
MCS0	20	-92	20	-92
MCS1	19	-90	20	-90
MCS2	19	-87	20	-87
MCS3	19	-85	20	-85
MCS4	19	-82	20	-82
MCS5	18	-79	19	-78
MCS6	18	-76	19	-77
MCS7	17	-74	18	-74
802.11n HT40				
MCS0 /8	20	-91	20	-92
MCS1 /9	19	-88	20	-89
MCS2 /10	19	-85	20	-86
MCS3 /11	19	-82	20	-83
MCS4 /12	19	-79	20	-80
MCS5 /13	18	-76	19	-77
MCS6 /14	18	-74	19	-74
MCS7 /15	17	-72	18	-71