

FortiAP[™]-320B Wireless Access Point

Integrated Wireless Security and Access

The Need for a Fortified Wireless LAN

Enterprises are looking to increase productivity through uninterrupted access to applications and resources, without compromising security and agility. You want to increase visibility and control of your wireless network traffic by enforcing the same policies as your wired network and eliminate potential blind spots. You need a solution that meets compliance objectives by proactively blocking unauthorized access, providing tools for business continuity, and following industry best practices.

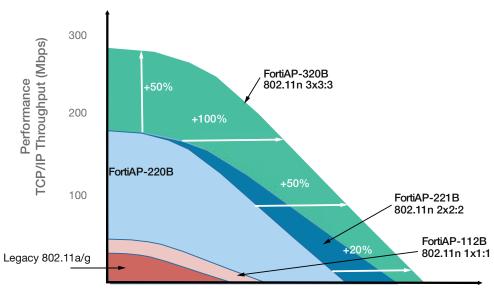
Integrated Wireless Security and Access Solution

Fortinet's FortiAP-320B wireless thin access point delivers secure, identity-driven WiFi client access that creates a fortified WLAN network. Centrally managed by a FortiGate® or FortiWiFi™ platform with its integrated wireless controller, FortiAPs enable you to deploy a comprehensive, integrated security solution for your wireless and wired networks. By acting as a wireless controller, FortiGate or FortiWiFi security platforms enable you to deploy comprehensive unified threat management (UTM) protection over your wireless network.

Highest Performance and Most versatile thin Access Point

The FortiAP-320B is IEEE 802.11a/b/g/n standards-based, and operates on both 2.4 GHz b/g/n and 5 GHz a/n spectrums. The FortiAP-320B sports the new 3x3 MIMO technology with three spatial streams which allows connection rates of up to 450Mbps. This results in more than 50% throughput over 2x2 access points and a longer connection range. Its dual redundant PoE Ethernet ports provide maximum uptime and longer connection range, making this access point ideal for mission critical environments such as hospitals and factories. This access point can also be deployed above ceiling tiles as the enclosure is plenum rated.

The FortiAP-320B is a versatile access point and in addition to providing client access it can be configured to operate in mesh node, as a dedicated air monitor, or as a remote access point with an encrypted data channel. It support up to eight SSIDs per radio—seven for client access and one for scanning for rogue access points- and uses multiple discovery techniques to find available FortiGate controllers over L2 or L3 networks. This access point can also deployed above ceiling tiles as the enclosure the plenum rated allowing access points to remain hidden throughout the enterprise.



Range of Access Point

DATASHEET

High Performance Secure Thin Access Points

- Leverage existing FortiGate or FortiWiFi platforms as controllers for low TCO
- Simultaneous security monitoring and client services
- Supports new directional beam forming for higher performance at extended range
- Full range of authentications and access for all use cases
- Integration with FortiManager and FortiAnalyzer for unified control and reporting
- Fast Roaming for uninterrupted data access
- Automatic Radio Resource Provisioning (ARRP) for optimized throughput
- Flexible deployment options with simple per device pricing
- Layer 7 application QoS for maximum business productivity
- Rogue AP control for PCI DSS compliance



| Differentiating Feature | Benefit |
|--|--|
| Enterprise Unified Threat Management | Protects your network with the widest range of security and networking technologies seamlessly integrated into a single device: Firewall, IPS, Application Control, VPN, Web Filtering, and many others. |
| Application-Layer Quality of Service | Going above and beyond Wireless Multimedia Extensions (WME) by offering layer 7 traffic shaping and application use control. |
| Robust rogue AP control | Industry's most comprehensive monitoring, detection and suppression of rogue APs for PCI DSS compliance. |
| 'Single Pane of Glass' Management Console | Unmatched visibility and control of all wired and wireless network traffic that eliminates blind spots in your security infrastructure and ensures consistent and effective policy enforcement and compliance. |
| One Access Point, Many Uses | Software reconfiguration allows one radio to be dedicated to wireless air monitoring while the other provides full AP functionality to client; software license allows simultaneous mesh backhaul and remote AP functionality. |
| TX Beam Forming (TxBF) and Maximal Ratio Combining (MRC) | Leads to wider coverage and optimum performance due to extended Rate over a longer range. |

| Technical Specifications | FortiAP-320B | | | |
|--|--|--|--|--|
| Hardware Specifications | | | | |
| Indoor/Outdoor Deployment | Indoor and Plenum | | | |
| Number of Radios | 2 | | | |
| Number of Antennas | 6 internal | | | |
| Peak Antenna Gain | 3dBi for 2.4Ghz, 4dBi for 5Ghz | | | |
| 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 | 5 GHz a/n | | | |
| Frequency of Radio 2 | 2.4GHz IEEE b/g/n | | | |
| Tx/Rx Streams (802.11n mode) | 3x3 MIMO with 3 spatial streams. 450 Mbps / Radio for total of 900 Mbps aggregated traffic | | | |
| Ethernet Port | 2 x 10/100/1000 | | | |
| Serial Console Port | Yes | | | |
| USB | Yes - for quick setup using FortiExplorer smartphone app | | | |
| Power over Ethernet (PoE) | Dual redundant PoE power ports with support for IEEE 802.3af or 802.3at | | | |
| WME Multimedia Extensions | Yes (4 priority queues for voice, video, data and background traffic) | | | |
| Simultaneous SSIDs | 16 (14 for client access, 2 for monitoring) | | | |
| EAP Type(s) | EAP-TLS, EAP-TTLS/MSCHAPv2, 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 & Web Captive Portal, MAC blacklist & whitelist | | | |
| Maximum Tx Power | 24 dBm (250mW) * | | | |
| Physical Security | Kensington Lock | | | |
| Mean Time Between Failures | > 5 years | | | |
| IEEE Specifications | 802.11a, 802.11b, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11n, 802.1X, 802.3af | | | |
| 802.11n Features | 20Mhz and 40Mhz 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) Transmit beamforming (TxBF) Maximum Ratio Combining (MRC) for improved receiver performance | | | |

| Technical Specifications | FortiAP-320B |
|---------------------------|---|
| Dimensions | |
| Length x Width x Height | 6.5 in (16.51 cm) x 6.5 in (16.51 cm) x 1.6 in (4 cm) |
| Weight | 19.5 oz (550 g) |
| Package (shipping) Weight | 28.6 oz (810 g) |
| Mounting Options | Drywall Mount anchors, T-Rail Mount and Ceiling mount are included in package |
| Environment | |
| Power Adapter ** | Adapter Input 100-240V 50/60Hz 0.4A Output: 12V DC 1.25A center positive |
| Humidity | 10% to 90% non condensing |
| Operating Temperature | 32 – 104 °F (0 – 40 °C) |
| Storage Temperature | -4 – 158 °F (-20 – 70 °C)` |
| Target Application | Suitable for high performance, high availability installations. |
| Directives | Low Voltage Directive ● RoHS |

| Declaration of Conformity | | | | |
|---------------------------|--|--|--|--|
| Organization | Compliance Identifier | | | |
| СВ | IEC 60950-1:2005 | | | |
| UL | UL 60950-1, CSA C22.2 No. 60950-1-07 | | | |
| FCC | FCC Part 15, Class B and Subpart C &E ICES-003 | | | |
| CE | RR&TTE Directive 1999/5/EC EN 300 328 /EN 301 489/ EN 301 893 EN 50385 | | | |
| | EU Directive 2004/108/EC EMC EU Directive 2006/95/EC LVD EN 55022/ EN 55024/EN 61000 | | | |
| IC | Canada RSS-210 Issue 7 Canada RSS-Gen Issue 2 | | | |
| | RSS102, Issue 4 | | | |

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

 $[\]ensuremath{^{**}}$ Sold separately. See price list.

| RF RX/TX Performance Table | | | | | | |
|----------------------------|----------------|----------------|----------------|----------------|--|--|
| | Rad | io 1 | Radio 2 | | | |
| | 5G | Hz | 2.4 GHz | | | |
| 802.11 b | Tx Power (dBm) | Rx Sensitivity | Tx Power (dBm) | Rx Sensitivity | | |
| 1 Mbps | 24 | -93 | | | | |
| 11 Mbps | 23 | -90 | | | | |
| 802.11 a/g | | | | | | |
| 6 Mbps | 23 | -92 | 20 | -90 | | |
| 9 Mbps | 23 | -90 | 20 | -88 | | |
| 12 Mbps | 23 | -88 | 20 | -87 | | |
| 18 Mbps | 23 | -86 | 20 | -85 | | |
| 24 Mbps | 23 | -84 | 20 | -84 | | |
| 36 Mbps | 22 | -80 | 17 | -79 | | |
| 48 Mbps | 21 | -78 | 15 | -78 | | |
| 54 Mbps | 20 | -76 | 13 | -77 | | |
| 802.11n HT20 | | | | | | |
| MCS 0/8/16 | 22 | -90 | 21 | -88 | | |
| MCS 1/9/17 | | -87 | 20 | -86 | | |
| MCS 2/10/18 | 21 | -84 | 20 | -84 | | |
| MCS 3/11/19 | 21 | -81 | 20 | -82 | | |
| MCS 4/12/20 | 20 | -79 | 19 | -80 | | |
| MCS 5/13/21 | 20 | -77 | 19 | -78 | | |
| MCS 6/14/22 | 19 | -75 | 18 | -77 | | |
| MCS 7/15/23 | 19 | -73 | 18 | -76 | | |
| 802.11n HT40 | | | | | | |
| MCS 0/8/16 | 21 | -88 | 17 | -86 | | |
| MCS 1/9/17 | 20 | -85 | 16 | -84 | | |
| MCS 2/10/18 | 20 | -82 | 16 | -82 | | |
| MCS 3/11/19 | 20 | -79 | 16 | -80 | | |
| MCS 4/12/20 | 19 | -77 | 14 | -78 | | |
| MCS 5/13/21 | 19 | -75 | 14 | -76 | | |
| MCS 6/1422 | 18 | -72 | 13 | -74 | | |
| MCS 7/15/23 | 18 | -70 | 13 | -72 | | |

| Ordering Information | | | | | | |
|----------------------|-----------------------|--|--|--|--|--|
| Product | SKU | Description | | | | |
| FortiAP-320B | FAP-320B | Dual Band - Dual radio controller based thin access point with internal antennas- 3x3 MIMO triple stream supports 450Mbps on each radio (one at 2.4Ghz and one at 5Ghz) Dual redundant PoE powered. AC Adaptor supplied. | | | | |
| | FC-10-P0224-311-02-DD | 8x5 Enhanced FortiCare. | | | | |
| | FC-10-P0224-247-02-DD | 24x7 Comprehensive FortiCare | | | | |
| GPI-115 PoE | GPI-115 | Fortinet 1-Port Gigabit POE Power Injector, 802.3af 15.4Watts 10/100/1000 (PD-3501). | | | | |
| FortiPlanner | N/A | Access point deployment planning software. Visit http://wireless.fortinet.com/ for download and further information. | | | | |
| | FAP-FPL-PR0 | Unlimited AP placement. | | | | |

| Region/Country SKU Suffix* | | | | | | | | | |
|----------------------------|-------|-------------|---------------|-------|-------|----------|-----------|--------|------------|
| Americas-FCC | China | Europe ETSI | International | Japan | Korea | Non-FFCA | Singapore | Taiwan | World 2.4G |
| -A | -C | -E | -1 | -J | -K | -N | -S | -T | -W |

^{*}For the complete list of countries and regions, refer to http://www.fortinet.com/wireless.

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