


HIGHLIGHTS

FortiAP C220C and C225C

The FAP-C220C and FAP-C225C are 802.11ac indoor basic cloud-managed Wireless access points. These access points are designed for deployment in SMBs and distributed enterprise remote sites that require basic wireless LAN connectivity.

 **802.11ac Wave 1 | Dual Radio 2.4 & 5 GHz | 4 Interior/Exterior Antennas**

 **Up to 300 + 867 Mbps**



SPECIFICATIONS

| | FORTIAP C220C | FORTIAP C225C |
|--|---|---|
| Hardware | | |
| Hardware Type | Indoor | Indoor |
| Number of Radios | 2 | 2 |
| Number of Antennas | 4 Internal | 4 RP-SMA External |
| Peak Antenna Gain | 3.5 dBi for 2.4 GHz, 3.5 dBi for 5 GHz | 3 dBi for 2.4 GHz, 3 dBi for 5 GHz |
| Frequency Bands (GHz) * | 2.400–2.4835, 5.150–5.250, 5.470–5.725, 5.725–5.850 | 2.400–2.4835, 5.150–5.250, 5.470–5.725, 5.725–5.850 |
| Frequency of Radio 1 | 2.4 GHz b/g/n 20/40 MHz | 2.4 GHz b/g/n 20/40 MHz |
| Frequency of Radio 2 | 5 GHz a/n/ac 20/40/80 MHz | 5 GHz a/n/ac 20/40/80 MHz |
| Throughput | Radio 1: Up to 300 Mbps Radio 2: Up to 867 Mbps | Radio 1: Up to 300 Mbps Radio 2: Up to 867 Mbps |
| Tx/Rx Streams | MIMO with 2 spatial streams | MIMO with 2 spatial streams |
| Ethernet Ports | 2x GE RJ45 ports (1x WAN port, 1x LAN port) | 2x GE RJ45 ports (1x WAN port, 1x LAN port) |
| USB Port | 1x Type A | 1x Type A |
| Serial Console Port | — | — |
| Power over Ethernet (PoE) | IEEE 802.3af (12 W) | IEEE 802.3af (12 W) |
| Maximum / Recommended Number of Concurrent Clients | 32 / 20 | 32 / 20 |
| WME Multimedia Extensions | Yes (4 priority queues for voice, video, data and background traffic) | Yes (4 priority queues for voice, video, data and background traffic) |
| Simultaneous SSIDs | 8 | 8 |
| EAP Type(s) | EAP-TLS, EAP-TTLS/MSCHAPv2, EAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC EAP-SIM, EAP-AKA, EAP-FAST | 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 | WPA™ and WPA2™ with 802.1x or Preshared key, WEP |
| Maximum Tx Power | 23 dBm (200 mW)* | 23 dBm (200 mW)* |
| Physical Security | No | No |
| Mean Time Between Failures | >10 Years | >10 Years |
| IEEE Specifications | 802.11a, 802.11b, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11n, 802.1x, 802.3af, 802.11ac | 802.11a, 802.11b, 802.11e, 802.11g, 802.11h, 802.11i, 802.11j, 802.11n, 802.1x, 802.3af, 802.11ac |
| FortiPresence Capable | No | No |
| Wireless Mesh Capable | No | No |
| Roaming | No | No |
| Rogue AP Detection | No | No |
| DAARP/TX | No | No |

| | FORTIAP C220C | FORTIAP C225C |
|---|---|---|
| Advanced 802.11 Features | | |
| Low-density parity check (LDPC) encoding | Yes | Yes |
| Maximum likelihood demodulation (MLD) | No | No |
| Maximum Ratio Combining (MRC) | Yes | Yes |
| A-MPDU and A-MSDU Packet Aggregation | Yes | Yes |
| MIMO Power Save | Yes | Yes |
| WME Multimedia Extensions | Yes (4 priority queues for voice, video, data and background traffic) | Yes (4 priority queues for voice, video, data and background traffic) |
| Wireless Monitoring Capabilities | | |
| Frequencies Scanned | — | — |
| Background Scan with Client Access on 2.4 and 5 GHz | No | No |
| Full-time Scan as Dedicated Monitor | No | No |
| Full-time Scan with Client Access on 5G GHz | No | No |
| Dimensions | | |
| Length x Width x Height | 8.5 x 8.5 x 1.38 inches (21.6 x 21.6 x 3.5 cm) | 8.5 x 8.5 x 1.38 inches (21.6 x 21.6 x 3.5 cm) |
| Weight | 1.02 lb (0.46 kg) | 1.02 lb (0.46 kg) |
| Package (shipping) Weight | 1.94 lb (0.88 kg) | 1.94 lb (0.88 kg) |
| Mounting Options | Ceiling, T-Rail and wall | Ceiling, T-Rail and wall |
| Included Accessories | Ceiling, T-Rail and wall mount kit | Ceiling, T-Rail and wall mount kit |
| Environment | | |
| Power Supply | Adapter Input: 100–240V, 50/60Hz, 0.9A Maximum Output: 12V DC, 3A | Adapter Input: 100–240V, 50/60Hz, 0.9A Maximum Output: 12V DC, 3A |
| Power Consumption (Average) | 5 W | 5 W |
| Power Consumption (Maximum) | 12 W | 12 W |
| Humidity | 5–90% non condensing | 5–90% non condensing |
| Operating Temperature | 32–104°F (0–40°C) | 32–104°F (0–40°C) |
| Storage Temperature | –4–158°F (–20–70°C) | –4–158°F (–20–70°C) |
| Directives | Low Voltage Directive • RoHS | Low Voltage Directive • RoHS |
| Certifications | | |
| WiFi Alliance Certified | No | No |
| Warranty | | |
| Limited Lifetime Warranty | Yes | Yes |

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

RF RX/TX PERFORMANCE TABLE

| FORTIAP C220C AND FORTIAP C225C | | | | |
|---------------------------------|------------------------|----------------------|------------------------|----------------------|
| 802.3af 802.11 a/g | Radio 1 2.4 GHz | | Radio 2 5 GHz | |
| | Average TX Power (dBm) | RX Sensitivity (dBm) | Average TX Power (dBm) | RX Sensitivity (dBm) |
| 6 Mbps | 19 | -92 | 16 | -90 |
| 9 Mbps | 19 | -90 | 16 | -89 |
| 12 Mbps | 19 | -86 | 16 | -88 |
| 18 Mbps | 19 | -84 | 16 | -86 |
| 24 Mbps | 19 | -81 | 16 | -82 |
| 36 Mbps | 19 | -78 | 16 | -78 |
| 48 Mbps | 19 | -74 | 16 | -76 |
| 54 Mbps | 19 | -75 | 16 | -75 |
| 802.11 n HT20 | | | | |
| MCS 0/8 | 15 | -92 | 13 | -90 |
| MCS 1/9 | 15 | -88 | 13 | -89 |
| MCS 2/10 | 15 | -86 | 13 | -85 |
| MCS 3/11 | 15 | -83 | 13 | -82 |
| MCS 4/12 | 15 | -79 | 13 | -79 |
| MCS 5/13 | 15 | -75 | 13 | -74 |
| MCS 6/14 | 16 | -73 | 13 | -73 |
| MCS 7/15 | 15 | -73 | 12 | -72 |
| 802.11 n HT40 | | | | |
| MCS 0/8 | 15 | -88 | 13 | -87 |
| MCS 1/9 | 15 | -83 | 13 | -86 |
| MCS 2/10 | 15 | -81 | 13 | -82 |
| MCS 3/11 | 15 | -78 | 13 | -79 |
| MCS 4/12 | 15 | -76 | 13 | -75 |
| MCS 5/13 | 15 | -71 | 13 | -71 |
| MCS 6/14 | 15 | -70 | 13 | -70 |
| MCS 7/15 | 15 | -68 | 13 | -69 |
| 802.11 ac VHT20 | | | | |
| MCS 0 | | | 12 | -90 |
| MCS 1 | | | 12 | -88 |
| MCS 2 | | | 12 | -86 |
| MCS 3 | | | 12 | -82 |
| MCS 4 | | | 12 | -79 |
| MCS 5 | | | 12 | -75 |
| MCS 6 | | | 11 | -73 |
| MCS 7 | | | 12 | -72 |
| MCS 8 | | | 11 | -66 |
| 802.11 ac VHT40 | | | | |
| MCS 0 | | | 12 | -87 |
| MCS 1 | | | 12 | -85 |
| MCS 2 | | | 12 | -82 |
| MCS 3 | | | 12 | -79 |
| MCS 4 | | | 12 | -75 |
| MCS 5 | | | 12 | -71 |
| MCS 6 | | | 12 | -70 |
| MCS 7 | | | 12 | -69 |
| MCS 8 | | | 12 | -63 |
| MCS 9 | | | 11 | -60 |
| 802.11 ac VHT80 | | | | |
| MCS 0 | | | 12 | -83 |
| MCS 1 | | | 12 | -82 |
| MCS 2 | | | 11 | -78 |
| MCS 3 | | | 11 | -75 |
| MCS 4 | | | 12 | -73 |
| MCS 5 | | | 12 | -67 |
| MCS 6 | | | 12 | -66 |
| MCS 7 | | | 12 | -64 |
| MCS 8 | | | 12 | -60 |
| MCS 9 | | | 12 | -57 |

FAP-C220C/C225C, antenna gain not included (4dB/5dB int/ext 2.4 GHz/5 GHz antenna)