FortiAP Outdoor Series

FortiAP 112D, 222C and 224D

Thin Wireless LAN Access Points

FortiAP are thin access points, delivering secure, identity-driven WiFi access for your enterprise network, managed centrally by the integrated WLAN controller of any FortiGate® security appliance. With the integration of the wireless controller functionality into the market leading FortiGate appliance, Fortinet delivers a true Unified Access Layer. This enables you to easily manage wired and wireless security from a Single Pane of Glass management console and protects your network from the latest security threats.

Outdoor Enterprise WLAN Deployment

FortiAP outdoor WLAN access points are ruggedized products designed for installation in harsh physical environments. Outdoor FortiAPs can provide outdoor access to clients when deployed in AP mode, or they can be used as a wireless mesh client to enabling bridging or point-to-multipoint coverage for large outdoor areas. Some models are equipped with external antenna connectors to support the use of directional or panel antennas and dual-port models feature PoE pass-through to power IP CCTV cameras.

Key Features & Benefits

<table>
<thead>
<tr>
<th>Advanced Security Protection</th>
<th>Wireless LAN security done right, from the leader in network security. Integrated Firewall, IPS, Application Control, and Web Filtering protect the wireless LAN from the latest security threats.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrated WIDS and Rogue AP Suppression</td>
<td>Protects the network from advanced wireless threats and satisfies PCI DSS compliance.</td>
</tr>
<tr>
<td>Deep Application Control</td>
<td>Fortinet goes above Wireless Multimedia Extensions (WME) by offering deep Layer 7 inspection to precisely control applications and bandwidth usage.</td>
</tr>
<tr>
<td>“Single Pane of Glass” Management Console</td>
<td>Unified management console simplifies operations, ensuring consistent and effective policy enforcement and compliance.</td>
</tr>
</tbody>
</table>

Highlights

- Supports latest 802.11ac technology with association rate of up to 1.3 Gbps.
- Leverage existing FortiGate or FortiWiFi platforms as controllers for low TCO.
- Integration with FortiManager and FortiAnalyzer for centralized management and reporting.
- Fast Roaming for uninterrupted data access.
- Automatic Radio Resource Provisioning (ARRP) for optimized throughput.
- Layer 7 application control prioritizes business traffic.
- Rogue AP detection and mitigation to satisfy PCI DSS compliance.
HARDWARE

FortiAP 112D
The FortiAP 112D is an entry-level 802.11n outdoor AP, designed for outdoor deployments with a low client density. The AP is powered by PoE, but also features a spare Ethernet port supporting PoE-PS, which can be used to both bridge and power an outdoor IP CCTV camera, such as Fortinet’s FortiCam. Just like all FortiAP products, this versatile AP can be configured to operate in AP mode, Mesh mode, Bridge Mode, or as a remote AP if required.

FortiAP 222C
The FortiAP 222C is a high-performance dual-band 2x2 MIMO 802.11ac technology AP, supporting 80 MHz channel width, to achieve a 280% throughput improvement over an 802.11n equivalent. Designed in a ruggedized IP67-rated enclosure and capable of withstanding extended temperature ranges, this AP is suitable for deployment in the most harsh conditions, like oil rigs, utility substations and outdoor stadiums. The N-type antenna connectors also make this AP suitable for use with high-quality external antennas for long-distance and mission-critical bridging or mesh deployments.

FortiAP 224D
The FortiAP 224D is an 802.11n outdoor AP designed for medium density outdoor applications, like municipal WiFi or outdoor school environments. The IP66-rated enclosure protects the AP from the normal weather conditions you would expect outdoors and the RP-SMA antenna connections support the connection of external directional or panel antennas for extended coverage in challenging locations.
DEPLOYMENT

Outdoor Mesh and PoE Pass-Though Deployment

Offer guest Wi-Fi to patrons through secure captive portal

Extend wireless reach with mesh capability

Dual Ethernet port with PoE enables bridging to IP CCTV cameras

Outdoor Point-to-Point Bridging or Multipoint Mesh Deployment

<table>
<thead>
<tr>
<th>Access Point</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FAP2223X120002737</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FAP2223X12001057</td>
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<tr>
<td>FAP2223X12002736</td>
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<tr>
<td>NGCC-CCGS-QuebecBuilding500-ROOT</td>
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<tr>
<td>NGCC-CCGS-Building100</td>
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<td>NGCC-CCGS-TestShip</td>
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</table>
ANTENNA RADIATION PATTERNS

FAP-222C

RF RX/TX PERFORMANCE TABLE

<table>
<thead>
<tr>
<th>Operating Frequency</th>
<th>FORTIAP 222C</th>
<th></th>
<th>RADIO 2 — 2.4 GHz</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rx Sensitivity (dBm)</td>
<td>Tx Power (dBm)</td>
<td>Rx Sensitivity (dBm)</td>
<td>Tx Power (dBm)</td>
</tr>
<tr>
<td>6 Mbps</td>
<td>24</td>
<td>27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>-93</td>
<td>-92</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54 Mbps</td>
<td>20</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>-77</td>
<td>-75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>802.11n HT20</td>
<td>24</td>
<td>27</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MCS 0/8</td>
<td>-93</td>
<td>27</td>
<td>-91</td>
<td></td>
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<td>MCS 1/9</td>
<td>24</td>
<td>27</td>
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<td>MCS 2/10</td>
<td>23</td>
<td>26</td>
<td>-91</td>
<td></td>
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<tr>
<td>MCS 3/11</td>
<td>23</td>
<td>26</td>
<td>-91</td>
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<td>MCS 4/12</td>
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<td>MCS 5/13</td>
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<td>-91</td>
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<td>MCS 6/14</td>
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<td>-91</td>
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<tr>
<td>802.11n HT40</td>
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<td>-89</td>
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<td>-89</td>
<td></td>
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<tr>
<td>MCS 5/13</td>
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<td>27</td>
<td>-89</td>
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<tr>
<td>MCS 6/14</td>
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<td>-89</td>
<td></td>
</tr>
<tr>
<td>802.11 ac HT80</td>
<td>20</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MCS 0</td>
<td>24</td>
<td>27</td>
<td>-87</td>
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<td></td>
</tr>
<tr>
<td>MCS 3</td>
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<td>-87</td>
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<td>MCS 4</td>
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<td>802.11 ac HT80</td>
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<tr>
<td>MCS 8</td>
<td>24</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>MCS 9</td>
<td>24</td>
<td>27</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
RF RX/TX PERFORMANCE TABLE

|                      | FORTIAP 224D | RADIO 1 — 5 GHz | 802.11 a/g | Tx Power (dBm) | Rx Sensitivity (dBm) | 802.11 n HT20 | MSC 0/8 | 86 | 20 | -85 | 20 | -86 |
|----------------------|--------------|-----------------|------------|----------------|----------------------|---------------|---------|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------|------------------------------|----------------|----------------|----------------|----------------|
|                      |              |                 | 6Mbps      | 20             | -87                  | 20            | MSC 0/8 | 86 | 20 | -85 | 20 | -86 |
|                      |              |                 | 9Mbps      | 19             | -83                  | 20            | MSC 1/9 | 86 | 20 | -83 | 20 | -86 |
|                      |              |                 | 12Mbps     | 20             | -81                  | 20            | MSC 2/10 | 86 | 20 | -81 | 20 | -86 |
|                      |              |                 | 18Mbps     | 19             | -78                  | 20            | MSC 3/11 | 86 | 20 | -78 | 20 | -81 |
|                      |              |                 | 24Mbps     | 18             | -75                  | 19            | MSC 4/12 | 86 | 20 | -75 | 19 | -81 |
|                      |              |                 | 36Mbps     | 18             | -73                  | 19            | MSC 5/13 | 86 | 20 | -73 | 19 | -81 |
|                      |              |                 | 48Mbps     | 17             | -72                  | 19            | MSC 6/14 | 86 | 20 | -72 | 19 | -81 |
|                      |              |                 | 54Mbps     | 17             | -70                  | 19            | MSC 7/15 | 86 | 20 | -70 | 19 | -81 |
|                      |              |                 | 802.11 n HT40 | 20             | -83                  | 20            | MSC 0/8 | 83 | 20 | -83 | 20 | -83 |
|                      |              |                 | 802.11 n HT40 | 19             | -80                  | 20            | MSC 1/9 | 83 | 20 | -80 | 20 | -83 |
|                      |              |                 | 802.11 n HT40 | 18             | -74                  | 20            | MSC 2/10 | 83 | 20 | -74 | 20 | -80 |
|                      |              |                 | 802.11 n HT40 | 17             | -72                  | 19            | MSC 3/11 | 83 | 20 | -72 | 19 | -80 |
|                      |              |                 | 802.11 n HT40 | 16             | -70                  | 19            | MSC 4/12 | 83 | 19 | -70 | 19 | -80 |
|                      |              |                 | 802.11 n HT40 | 15             | -69                  | 18            | MSC 5/13 | 83 | 19 | -69 | 18 | -80 |
|                      |              |                 | 802.11 n HT40 | 14             | -76                  | 18            | MSC 6/14 | 83 | 19 | -76 | 18 | -80 |
|                      |              |                 | 802.11 n HT40 | 13             | -73                  | 18            | MSC 7/15 | 83 | 19 | -73 | 18 | -80 |
## DATA SHEET: FortiAP™ Outdoor Series

### SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>FORTIAP 112D</th>
<th>FORTIAP 224D</th>
<th>FORTIAP 222C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hardware</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hardware Type</td>
<td>Outdoor IP55 rated</td>
<td>Outdoor IP66 rated</td>
<td>Outdoor IP67 rated, status LEDs, gore vent for pressure equalization</td>
</tr>
<tr>
<td>Number of Radios</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Number of Antennas</td>
<td>1 internal</td>
<td>4 external RP-SMA</td>
<td>4 external N-Type</td>
</tr>
<tr>
<td>Peak Antenna Gain</td>
<td>6 dBi for 2.4 GHz, 6 dBi for 5 GHz</td>
<td>5 dBi for 2.4 GHz, 5 dBi for 5 GHz</td>
<td>3.5 dBi for 2.4 GHz, 6 dBi for 5 GHz</td>
</tr>
<tr>
<td>Frequency of Radio 1</td>
<td>2.4 GHz b/g/n or 5 GHz a/n</td>
<td>5 GHz a/n</td>
<td>5 GHz a/n/ac</td>
</tr>
<tr>
<td>Frequency of Radio 2</td>
<td>–</td>
<td>2.4 GHz b/g/n</td>
<td>–</td>
</tr>
<tr>
<td>Throughput</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Throughput Radio 1</td>
<td>Up to 150 Mbps</td>
<td>Up to 300 Mbps</td>
<td>Up to 867 Mbps, Radio 2: Up to 300 Mbps</td>
</tr>
<tr>
<td>Throughput Radio 2</td>
<td>–</td>
<td>2.4 GHz b/g/n</td>
<td>–</td>
</tr>
<tr>
<td>Tx/Rx Streams</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of Spacial Streams</td>
<td>1x1</td>
<td>2x2</td>
<td>2x2</td>
</tr>
<tr>
<td>Ethernet Ports</td>
<td>2x FE RJ45 ports with PoE pass-through. (one PoE-PD, one PoE-PS)</td>
<td>1x GE RJ45</td>
<td>1x GE RJ45</td>
</tr>
<tr>
<td>Ethernet Ports</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power over Ethernet (PoE)</td>
<td>IEEE 802.3af</td>
<td>IEEE 802.3af</td>
<td>IEEE 802.3af or included PoE injector</td>
</tr>
<tr>
<td>WME Multimedia Extensions</td>
<td>Yes (4 priority queues for voice, video, data and background traffic)</td>
<td>Yes (4 priority queues for voice, video, data and background traffic)</td>
<td>Yes (4 priority queues for voice, video, data and background traffic)</td>
</tr>
<tr>
<td>Simultaneous SSIDs</td>
<td>16 (14 if background scanning enabled)</td>
<td>16 (14 if background scanning enabled)</td>
<td>16 (14 if background scanning enabled)</td>
</tr>
<tr>
<td>EAP Type(s)</td>
<td>EAP-TLS, EAP-TLS/MSCHAPv2, EAP-V0/EAP-MSCHAPv2, PEAPv1/EAP-GTC EAP-SIM, EAP-AKA, EAP-FAST</td>
<td>EAP-TLS, EAP-TLS/MSCHAPv2, EAP-V0/EAP-MSCHAPv2, PEAPv1/EAP-GTC EAP-SIM, EAP-AKA, EAP-FAST</td>
<td>EAP-TLS, EAP-TLS/MSCHAPv2, EAP-V0/EAP-MSCHAPv2, PEAPv1/EAP-GTC EAP-SIM, EAP-AKA, EAP-FAST</td>
</tr>
<tr>
<td>User/Device Authentication</td>
<td>WPA™ and WPA2™ with 802.1x or Pre-shared key, WEP and Web Captive Portal, MAC black &amp; whitelist</td>
<td>WPA™ and WPA2™ with 802.1x or Pre-shared key, WEP and Web Captive Portal, MAC black &amp; whitelist</td>
<td>WPA™ and WPA2™ with 802.1x or Pre-shared key, WEP and Web Captive Portal, MAC black &amp; whitelist</td>
</tr>
<tr>
<td>Maximum Tx Power</td>
<td>18 dBm (60 mW)</td>
<td>20 dBm (60 mW)</td>
<td>20 dBm (60 mW)</td>
</tr>
<tr>
<td>Physical Security</td>
<td>Concrete Pole Mount</td>
<td>Concrete and pole mount</td>
<td>Concrete and pole mount</td>
</tr>
<tr>
<td>Mean Time Between Failures</td>
<td>&gt; 10 years</td>
<td>&gt; 10 years</td>
<td>&gt; 7 years</td>
</tr>
<tr>
<td>IEEE Specifications</td>
<td>IEEE 802.11a, 802.11b, 802.11g, 802.11n, 802.1x, 802.3af</td>
<td>IEEE 802.11a, 802.11b, 802.11g, 802.11n, 802.1x, 802.3af</td>
<td>IEEE 802.11a, 802.11b, 802.11g, 802.11n, 802.1x, 802.3af</td>
</tr>
<tr>
<td>802.11ac 80MHz Channel</td>
<td>–</td>
<td>–</td>
<td>Yes</td>
</tr>
<tr>
<td>802.11n Features</td>
<td>20 MHz and 40 MHz High Throughput (HT) Support</td>
<td>Increased maximum frame transmission by incorporating A-MPDU and A-MSDU Packet Aggregation</td>
<td>20 MHz and 40 MHz High Throughput (HT) Support</td>
</tr>
<tr>
<td>Advanced 802.11n to enhance rate-over-range including:</td>
<td>–</td>
<td>Low-density parity check (LDPC) encoding</td>
<td>Low-density parity check (LDPC) encoding</td>
</tr>
<tr>
<td>Mounting Options</td>
<td>Wall or pole</td>
<td>Wall or pole</td>
<td>Wall or pole</td>
</tr>
<tr>
<td>Included Accessories</td>
<td>30 Watt PoE injector with AC power adapter, wall mount kit, and pole mount kit</td>
<td>PoE injector with AC power adapter, pole mount kit, wall mount kit, grounding cable and 4x dipole antennas</td>
<td>PoE injector with AC power adapter, pole mount kit, wall mount kit, grounding cable, surge protector, 4x dipole antennas</td>
</tr>
<tr>
<td>Wireless Monitoring Capabilities</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Full-time scan as dedicated monitor</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Dimensions</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Length x Width x Height</td>
<td>10.5 x 5.7 x 1.7 inches (267 x 145 x 44 mm)</td>
<td>6.9 x 6.9 x 1.9 inches (176 x 176 x 47 mm)</td>
<td>9.8 x 9.8 x 2.1 inches (249 x 220 x 53 mm)</td>
</tr>
<tr>
<td>Weight</td>
<td>1.48 lbs (0.675 kg)</td>
<td>1.77 lb (0.80 kg)</td>
<td>3.68 lbs (1.67 kg)</td>
</tr>
<tr>
<td>Package (shipping) Weight</td>
<td>2.72 lbs (1.235 kg)</td>
<td>1.33 lb (0.6 kg)</td>
<td>9.1 lbs (4.1 kg)</td>
</tr>
</tbody>
</table>
## SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>FORTIAP 112D</th>
<th>FORTIAP 224D</th>
<th>FORTIAP 222C</th>
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<tbody>
<tr>
<td><strong>Environment</strong></td>
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</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>Proprietary PoE Injector</td>
<td>Adapter Input: 100–240V AC, 50–60 Hz</td>
<td>Proprietary PoE Injector</td>
</tr>
<tr>
<td></td>
<td>7.21 W (22.61 W when using PoE Passthrough)</td>
<td>11.17 W</td>
<td>16 W</td>
</tr>
<tr>
<td><strong>Power Consumption (Average)</strong></td>
<td>7.86 W</td>
<td>11.76 W</td>
<td>18.4 W</td>
</tr>
<tr>
<td><strong>Power Consumption (Maximum)</strong></td>
<td>8.4 W (23.8 W when using PoE Passthrough)</td>
<td>11.76 W</td>
<td>18.4 W</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>10–90% non condensing</td>
<td>10–90% non condensing</td>
<td>5–90% non-condensing</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-4–140°F (-20–60°C)</td>
<td>23–110°F (-5–45°C)</td>
<td>-40–140°F (-40–60°C)</td>
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<tr>
<td><strong>Storage Temperature</strong></td>
<td>10–90% non condensing</td>
<td>10–90% non condensing</td>
<td>5–90% non-condensing</td>
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<tr>
<td><strong>Certifications</strong></td>
<td>WiFi Alliance Certified</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>Limited Lifetime Warranty</td>
<td>No</td>
<td>No</td>
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* Frequency selection and power may be restricted to abide by regional regulatory compliance laws.

## ORDER INFORMATION

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<thead>
<tr>
<th>Product</th>
<th>SKU</th>
<th>Description</th>
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<tbody>
<tr>
<td>FortiAP 112D</td>
<td>FAP-112D</td>
<td>Outdoor/indoor wireless AP — 2x FE RJ45 ports with PoE+ PD pass-through, single radio (802.11 a/b/g/n, 1x1 MIMO), Integrated wall mount, Proprietary PoE+ injector with AC power adapter included.</td>
</tr>
<tr>
<td></td>
<td>PC-10-P0113-311-02-DD</td>
<td>8x5 Enhanced FortiCare</td>
</tr>
<tr>
<td></td>
<td>PC-10-P0113-247-02-DD</td>
<td>24/7 Comprehensive FortiCare</td>
</tr>
<tr>
<td></td>
<td>SP-FAP222B-PA</td>
<td>Proprietary PoE injector with AC power adapter for FortiAP 112D</td>
</tr>
<tr>
<td>FortiAP 224D</td>
<td>FAP-224D</td>
<td>Outdoor wireless AP — 1x GE RJ45 port, dual radio (802.11 b/g/n and 802.11 a/n, 2x2 MIMO, IP65 rated, external antennas, pole/wall mount kit included, 802.3af PoE injector with AC power adapter included.</td>
</tr>
<tr>
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<td>PC-10-P0227-311-02-DD</td>
<td>8x5 Enhanced FortiCare</td>
</tr>
<tr>
<td></td>
<td>PC-10-P0227-247-02-DD</td>
<td>24/7 Comprehensive FortiCare</td>
</tr>
<tr>
<td></td>
<td>SP-FAP221B-PA</td>
<td>AC Power Adapter for FAP-224D</td>
</tr>
<tr>
<td>FortiAP 222C</td>
<td>FAP-222C</td>
<td>Outdoor wireless AP — 1x GE RJ45 port, dual radio (802.11 a/n/ac and 802.11 b/g/n, 2x2 MIMO), external antennas, Ceiling/wall mount kit included, Proprietary PoE injector with AC power adapter included.</td>
</tr>
<tr>
<td></td>
<td>PC-10-P0222-311-02-DD</td>
<td>8x5 Enhanced FortiCare</td>
</tr>
<tr>
<td></td>
<td>PC-10-P0222-247-02-DD</td>
<td>24/7 Comprehensive FortiCare</td>
</tr>
<tr>
<td></td>
<td>SP-FAP222B-PA</td>
<td>Proprietary PoE injector with AC power adapter for FortiAP 222C</td>
</tr>
<tr>
<td>FortiAP-FPL</td>
<td>FAP-FPL-PRO</td>
<td>FortiPlanner Wireless AP Deployment Planning Utility — Pro upgrade license unlocks FortiPlanner Lite (free version) to support more than 50 Access Points and includes site survey tool. Requires Windows 7.</td>
</tr>
</tbody>
</table>

## REGION/COUNTRY SKU SUFFIX

<table>
<thead>
<tr>
<th>Americas-FCC</th>
<th>Europe</th>
<th>ETSI</th>
<th>International</th>
<th>Japan</th>
<th>Korea</th>
<th>Non-FCCA</th>
<th>Singapore</th>
<th>Taiwan</th>
<th>World 2.4G</th>
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<tbody>
<tr>
<td>A</td>
<td>E</td>
<td>J</td>
<td>K</td>
<td>N</td>
<td>S</td>
<td>T</td>
<td>W</td>
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</tr>
</tbody>
</table>

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