The APC 2M-8 delivers the highest performance and stability available in the 2.4 GHz CPE class. This product combines a robust IP-65 compliant enclosure with a highly advanced 802.11n radio core containing MIMO 2x2 technology along with an integrated mid-gain dual polarization directional antenna. The device is powered by a reliable, advanced, and feature-rich operating system, allowing the creation of very high throughput and stable wireless networks quickly, safely, and effectively. In addition, the APC 2M-8 supports access point operating mode which extends application scenarios and makes the APC 2M-8 suited for both point to point and point to multipoint networks.

The robust software engine allows the APC 2M-8 to work as bridge or as a router, provides a user-friendly Adobe Flex - based GUI with instant changes, includes useful installation tools (Site survey, Antenna alignment, Delayed reboot, Spectrum analyzer, ping, traceroute) and also is compatible with Wireless Network Management System for one of the most advanced management tools on the market.

Usage examples

**PTMP**

Deliberant APC 2M-8 is an ideal device for point-to-multipoint applications as a medium to long range client device.

**PTP**

APC 2M-8 is a great device for medium to long range point-to-point applications.

<table>
<thead>
<tr>
<th>Product/ distance recomendation</th>
<th>PTMP mode</th>
<th>PTP mode</th>
<th>PTP mode (full capacity)</th>
</tr>
</thead>
<tbody>
<tr>
<td>APC 2M-8</td>
<td>5 km/ 3.1 mi</td>
<td>10 km/ 6.2 mi</td>
<td>1 km/ 0.6 mi</td>
</tr>
</tbody>
</table>
### Wireless

<table>
<thead>
<tr>
<th>WLAN standard</th>
<th>IEEE 802.11 b/g/n</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio mode</td>
<td>MIMO 2x2</td>
</tr>
<tr>
<td>Operating modes</td>
<td>Access point (auto WDS), Station, Station WDS, iPoll Access Point, iPoll Station</td>
</tr>
<tr>
<td>Radio frequency band</td>
<td>2.4 GHz</td>
</tr>
<tr>
<td>Transmit power</td>
<td>Up to 30 dBm (country dependent)</td>
</tr>
<tr>
<td>Receive sensitivity</td>
<td>Varying between -94 and -74 dBm depending on modulation</td>
</tr>
<tr>
<td>Channel size</td>
<td>20, 40 MHz</td>
</tr>
<tr>
<td>Modulation schemes</td>
<td>802.11 g/n: OFDM (64-QAM, 16-QAM, QPSK, BPSK)</td>
</tr>
<tr>
<td></td>
<td>802.11 b: DSS (CCK, DPQSK, DBPSK)</td>
</tr>
<tr>
<td>Data rates</td>
<td>Varying between 300, 270, 240, 180, 120, 90, 60, 30 Mbps</td>
</tr>
<tr>
<td></td>
<td>802.11 g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps</td>
</tr>
<tr>
<td></td>
<td>802.11 b: 11, 5.5, 2, 1 Mbps</td>
</tr>
<tr>
<td>Error correction</td>
<td>FEC, Selective ARQ, STBC</td>
</tr>
<tr>
<td>Duplexing scheme</td>
<td>Time division duplex</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>2.4 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmit power</td>
<td>Up to 30 dBm (country dependent)</td>
</tr>
<tr>
<td>Receive sensitivity</td>
<td>Varying between -94 and -74 dBm depending on modulation</td>
</tr>
</tbody>
</table>

#### Antenna

- **Type**: Integrated dual-polarized directional panel antenna
- **Gain**: 8 dBi

#### Wired

- **Interface**: 10/100 Base-T, RJ45
- **Built-in surge protection**: Yes

#### Networking

- **Operating modes**: Bridge, Router
- **WAN**: Static IP, DHCP client, PPPoE client
- **NAT**: Routing w/ or w/o NAT
- **Static routing**: Supported
- **DHCP**: Client, Server, Relay
- **Port forwarding**: Supported
- **VLAN**: Supported for management and data

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### APC 2M-8

#### Software
- **General**: Ability to define/limit frequency, channel width, EIRP, modulation
- **Advanced wireless functionality**: ATPC (automatic transmit power control), DFS 3, auto-channel, auto-modulation,
- **Operating mode**: Router, Bridge
- **Wireless operating modes**: AP, Station, AP WDS, Station WDS, Virtual radios (VSSID), iPoll access point, iPoll client
- **Wireless security**: WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL, User isolation, UAM (web portal authentication)
- **Wireless QoS**: WMM
- **WAN protocols**: Static IP, DHCP client, PPoE client
- **Network**: NAT, static routing, firewall, port forwarding, VLAN, traffic shaping
- **Services**: DHCP server, SNMP server, NTP client, Alerts, Remote syslog, Wireless and Ethernet statistics, bandwidth limiting
- **Management**: HTTP(S) GUI, SSH CLI, SNMP read, WNMS, troubleshooting file, reset via reset tool
- **Tools**: Site survey, Link test, Antenna alignment, Ping, Traceroute, Spectrum analyzer, delayed reboot

#### Physical
- **Dimensions**: Length 150 mm (5.9’’), width 115 mm (4.5’’), height 55 mm (2.1’’)
- **Weight**: 400 g (16.2 oz)
- **Power supply**: 12 - 48 V DC passive PoE
- **Power source**: 100 – 240 VAC via included adapter
- **Power consumption**: 7 W

#### Environmental
- **Operating temperature**: -40°C (-22 F) ~ +75°C (+167 F)
- **Humidity**: 0 ~ 90 % (non-condensing)

#### Management
- **System configuration**: User-friendly web GUI, Command line via SSH, centralized Wireless Network Management System, reset via reset tool
- **System monitoring**: SNMP v1/2c/3 server, Syslogs, system alerts via e-mail and SNMP trap

#### Regulatory
- **Certification**: FCC/CE (*pending)
- **Safety**: RoHS compliant

#### Antenna specifications
- **Frequency range**: 2.4 - 2.5 GHz
- **Gain**: 8 dBi
- **Polarization**: Dual linear
- **Cross-pol Isolation**: 22 dBi
- **Max VSWR**: 1.9:1
- **H-pol Beamwidth**: 60 deg
- **V-pol Beamwidth**: 40 deg
- **Elevation Beamwidth**: 40 deg

*Note: This product has not been authorized by the rules of the Federal Communications Commission. This product may not be sold or leased, or offered for sale or lease, in the United States, until authorization has been obtained.*

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