



RFNet Technologies Pte Ltd

Product Specifications

Professional Outdoor 2.4GHz Wireless Access Point & Bridge



AP-1061-PoE_{i/c}

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Model Explanation

Model "i": Industrial model,

For country require extreme operating temperature from -30C ~ +60C. (Such as Europe and North America).

Model "c": Commercial model,

For country accept operating temperature from 0C ~ +60C (such as south Asia).

Wireless and Ethernet

| Features | AP-1061-PoE |
|------------------------------------|--|
| Frequency | 2400~24835MHz |
| Max data rate, with Auto Fall Back | 108Mbps |
| Max Radio TX Output | Up to 20dBm |
| Modes Supported | AP, CPE |
| IEEE Wireless Standard | 802.11b/g |
| IEEE Ethernet Standard | 802.3, 802.3u (CSMA/CD) |
| Power Over Ethernet (PoE) | √ |
| PoE Type | Passive PoE, non-3af compliant |
| Modulation | DSSS, DQPSK, DBPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM |
| Channels | 12 (USA/Canada), 13 (Asia, Europe except France), 14 (Japan) |
| Channel frequency step size | 5MHz |
| Best Channel Scanning at Power up | √ (AP Mode only) |
| Radio Channel Select | Determine by AP |
| Radio Power Control (3dB steps) | 5 level from Max |
| RX Sensitivity | -95dBm @ 1Mbps |
| | -91dBm @ 2Mbps |
| | -92dBm @ 5.5Mbps |
| | -90dBm @ 6Mbps |
| | -90dBm @ 9Mbps |
| | -87dBm @ 11Mbps |
| | -88dBm @ 12Mbps |
| | -86dBm @ 18Mbps |
| | -82dBm @ 24Mbps |
| | -79dBm @ 36Mbps |
| -75dBm @ 48Mbps | |
| -73dBm @ 54Mbps | |
| Antenna Type | Single port for external connection |
| Max distance | Up to 10km, ptp |

Security and Access Control

| Features | AP-1061-PoE |
|---|-------------------------------------|
| Static WEP | Max 152 bits |
| WPA, 802.1x Support | √ (In AP mode only) |
| WPA_PSK | PassPhase with TKIP & AES Cipher |
| WDS (Wireless Distribution System) | √ |
| Suppress SSID | √ |
| Mac Access Control | √ |
| Configuration file download (Telnet) | √ |
| SNMP | V ₁ , V _{2c} |
| Firmware Upgrade | √ |
| Filtering | Broadcast & Multicast |
| Web Based Management | √ |
| Configurable Through Telnet | √ |
| Save last good Setting | √ |
| Software Reset | √ |
| Software Factory Reset | √ |
| Multiple FTP Pass Through | √ |
| VLAN Transparent | √ |
| Bandwidth Limiting with QoS* | √ |
| QoS (priority for Voice and Multimedia) | √ |
| Wireless Client to Client Isolation | For AP Mode |

*Note: When enabled this feature, the data bandwidth is set, and the balance bandwidth will be used for live data such as video and VoIP packets.

Management

| Features | AP-1061-PoE |
|-----------|-------------|
| Frequency | √ |
| Bandwidth | √ |

| | |
|---|-------------|
| Auto Associate to AP with same ESSID | √ |
| Seamless Roaming | √ |
| DHCP Client, Auto Negotiate for IP | √ |
| No of clients associations supported (AP mode) | 250 |
| No of concurrent users supported (AP mode) | 50 |
| No Wireless uplink supported (AP mode) | 1 |
| Static IP | √ |
| Wireless Association Status | √ |
| Password Access control to configuration | 2 Levels |
| Ping from Device | Thru Telnet |
| Firmware upgrade on the fly (without interfere operation, but need reboot to start new firmware) | √ |

Monitoring

| Features | AP-1061-PoE |
|---|-------------|
| User pre-set Range between BS for optimum performance | √ |
| Uplink & Downlink packets & Bytes Counters | √ |
| Software Version | √ |
| Hardware Version | √ |
| MAC Address | √ |
| Signal Strength | √ |
| MIR Classification | √ |

Physical, Electrical and Environment

| Features | AP-1061-PoE |
|---|---------------------|
| Weight (estimate) | 900gm, module only |
| Dimension (estimate) | 250 x 260 x 80mm |
| Power Requirement (estimate) | 7W max |
| Operating Temperature i (industrial model) | -35°C ~ +60°C |
| Operating Temperature c (commercial model) | 0°C ~ +60°C |
| Humidity, non condensing | Max 95% |
| Wind Speed Support | 120km/h |
| Waterproof rating | IP65 |
| Random Vibration (IEC-68-2-64) | √ |
| Shock (IEC-68-2-29) | √ |
| Drop (IEC-68-2-32) | √ |
| Salt Fog (IEC-68-2-11) | √ |
| Solar Radiation (IEC-68-2-5) | √ |
| RoHS | √ |
| Safety | EN 60950 |
| EMC and RFI | EN301893 + EN301489 |
| ESD | IEC 61000-4-2 |
| Lightning Protect at Ethernet Port | √ |

| | |
|---------------|-----------|
| Certification | CE |
| Warranty | 1.5 years |

Appendix A: Factory Default

| No | Item to Set | AP-1061-PoE | Remark |
|----|---|--------------|--|
| 1 | Device Mode | Access point | |
| 2 | ESSID | 11g | |
| 3 | WEP | Disable | |
| 4 | User ID (for configuration) | admin | All lower case. |
| 5 | Password (for configuration) | admin | All lower case |
| 6 | Default static IP address and subnet | Enable | IP addr: 192.168.1.20 Subnet : 255.255.255.0 Default gateway: 0.0.0.0 |
| 7 | DHCP client | Disable | With "Static IP" set on |
| 8 | Radio Power | 100% | Configurable |
| 9 | Super User ID (for upgrading of firmware) | super | All lower case |
| 10 | Password for Super user | super | All lower case |

Appendix B: Standard Packaging

The standard package shall include the following:

1. One AP-1061-PoE
2. One 48VDC PoE combiner module
3. One power cord
4. 3m RJ45 cable with IP67 connector
5. Screws and washers for bracket
6. Wall and Poll Mounting bracket
7. One CD (User manual)
8. Quick Install Guide