

## MODEL AIR N300 OUTDOOR ACCESS POINT



- High Power 300Mbps AP/Client.
- 14dBi antenna.
- WPA/WPA2 encryptions for defence against security threats.
- Seamlessly compatible with 802.11b/g/n devices.
- Supports 24V/1A PoE.
- Compatible with Major Base station in Client Mode.

|                     |                                                                |                   |                  |
|---------------------|----------------------------------------------------------------|-------------------|------------------|
| Hardware            |                                                                |                   |                  |
| Wireless            | 802.11N, 2T2R 300M MIMO Technology                             |                   |                  |
| Memory              | 64MB DDR2 RAM (128MB optional)                                 |                   |                  |
| Flash               | 8MB(16MB optional)                                             |                   |                  |
| Interface           | 2 10/100 Mbps RJ45 Port, support 12~24V PoE                    |                   |                  |
|                     | 1 Reset Button                                                 |                   |                  |
|                     | 1 DC Jack, 12V Power Supply                                    |                   |                  |
| Antenna             | 14dBi Panel Antenna                                            |                   |                  |
| LED Light           | POWER WI-FI WAN LAN S1(GPIO9) S2(GPIO14) S3(GPIO11) S4(GPIO12) |                   |                  |
| Size                | L 257mm , W: 87mm, H: 38 mm                                    |                   |                  |
| Power               | POE 24V/1A                                                     |                   |                  |
| RF Data             |                                                                |                   |                  |
| RF Data             | 802.11b/g/n:                                                   |                   |                  |
|                     | 2.4~2.4835GHz                                                  |                   |                  |
|                     | KoreaJapan、ETSI、FCC                                            |                   |                  |
| Modulation          | OFDM = BPSK,QPSK, 16-QAM, 64-QAM                               |                   |                  |
|                     | DSSS = DBPSK, DQPSK, CCK                                       |                   |                  |
| Data Rate           | 300 Mbps                                                       |                   |                  |
| Receive Sensitivity | 802.11n(2.4GHz)                                                | 802.11g           | 802.11b          |
|                     | -90dBm @ MCS0                                                  | - 90dBm @ 6Mbps   | - 95dBm @ 1Mbps  |
|                     | -72dBm @ MCS7                                                  | - 72dBm @ 54Mbps  | - 90dBm @ 11Mbps |
|                     | -90dBm @ MCS8                                                  |                   |                  |
|                     | -68dBm @ MCS15                                                 |                   |                  |
| RF Output Power     | 802.11n(2.4GHz)(± 1.5dBm)                                      | 802.11g(± 1.5dBm) | 802.11b(±1.5dBm) |
|                     | 28dBm@ MCS0~2/MCS8~10                                          | 28dBm @ 6~24Mbps  | 28dBm @1~11Mbps  |
|                     | 28dBm @ MCS3/MCS11                                             | 27dBm @ 36Mbps    |                  |
|                     | 27dBm @ MCS4/MCS12                                             | 27dBm @ 48Mbps    |                  |
|                     | 27dBm @ MCS5/MCS13                                             | 26dBm @ 54Mbps    |                  |
|                     | 26dBm @ MCS6/MCS14                                             |                   |                  |
|                     | 26dBm @ MCS7/MCS15                                             |                   |                  |
|                     |                                                                |                   |                  |
| Software            |                                                                |                   |                  |
|                     |                                                                |                   |                  |

|                                                                |                                                              |  |  |
|----------------------------------------------------------------|--------------------------------------------------------------|--|--|
| <b>Operation Mode</b>                                          | Wireless AP, Client                                          |  |  |
| <b>Protocol/Standard</b>                                       | IEEE 802.3(Ethernet)                                         |  |  |
|                                                                | IEEE 802.3u(Fast Ethernet)                                   |  |  |
|                                                                | IEEE 802.11b/g/n(2.4G WLAN)                                  |  |  |
| <b>Wireless</b>                                                | Auto-Channel selection                                       |  |  |
|                                                                | Distance Control (802.1x Ack timeout)                        |  |  |
|                                                                | Multiple SSID (4 SSID)                                       |  |  |
|                                                                | BSSID                                                        |  |  |
| <b>Security</b>                                                | WEP Encryption-64/128/152 bit                                |  |  |
|                                                                | WPA/WPA2 Personal (WPA-PSK using TKIP or AES)                |  |  |
|                                                                | WPA/WPA2 Enterprise (WPA-EAP using TKIP)                     |  |  |
|                                                                | Hide SSID                                                    |  |  |
| <b>System Setting</b>                                          | Web-based configuration (HTTP/Telnet)                        |  |  |
| <b>Firmware upgrade</b>                                        | Upgrade firmware via web browser or TFTP                     |  |  |
| <b>Administration</b>                                          | Admin Password can be configured                             |  |  |
| <b>System monitoring</b>                                       | Status in hand , useful statistic and Event log              |  |  |
| <b>Log</b>                                                     | Supports local logs, logs host, logs file export             |  |  |
| <b>Reset</b>                                                   | Reset or factory defaults                                    |  |  |
| <b>Backup</b>                                                  | Restore settings & configuration of the device to local file |  |  |
| <b>Physical Property</b>                                       |                                                              |  |  |
|                                                                |                                                              |  |  |
| <b>Temperature</b>                                             | Working: 0°C~55°C                                            |  |  |
|                                                                | Storage: -20°C to 70°C                                       |  |  |
| <b>Humidity</b>                                                | 5%~95% (typical)                                             |  |  |
| <b>Antenna Data</b>                                            |                                                              |  |  |
| <b>Frequency range (MHz)</b>                                   | 2400~2500                                                    |  |  |
| <b>Polarization</b>                                            | Vertical and Horizontal                                      |  |  |
| <b>Gain (dBi)</b>                                              | 2×14                                                         |  |  |
| <b>Half-power beam width (°)</b>                               | H: 65 V: 30                                                  |  |  |
| <b>Front-to-back ratio (dB)</b>                                | ≥25                                                          |  |  |
| <b>Input Impedance (Ω)</b>                                     | 50                                                           |  |  |
| <b>VSWR</b>                                                    | ≤1.5                                                         |  |  |
| <b>Isolation between ports</b>                                 | ≥28dB                                                        |  |  |
| <b>Cross-polar ratio</b>                                       | ≥15dB@0° ≥10dB@+/-60°                                        |  |  |
| <b>Side lobe suppression for first side lobe above horizon</b> | 15 dB                                                        |  |  |
| <b>Maximum input power (W)</b>                                 | 200                                                          |  |  |
| <b>Package Contents</b>                                        |                                                              |  |  |
| <b>AIR N300 Unit</b>                                           |                                                              |  |  |
| <b>PoE Adapter 24V/1A</b>                                      |                                                              |  |  |
| <b>User Manual</b>                                             |                                                              |  |  |
| <b>LAN Patchcord &amp; Clamp</b>                               |                                                              |  |  |



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