ENS202

Long Range Wireless 11N Outdoor AP /CB

- 2.4 GHz
- 2T+2R
- 11b/g/n
- 300Mbps

PRODUCT OVERVIEW

ENS202, the high-efficient 8dBi directional antenna with dual polarization provides an optimum, extended real outdoor throughput performance via point to point transmission in long range distances. The good waterproof ability with compact, robust design can be diversely configured and operated in the extremely harsh outdoor environment. Its advanced multi-operation modes (CB, AP, CR, WDS AP, WDS Bridge and WDS Station) integrated with Network Management Software "EZ Controller" can offer variety uses in constructing scalable wireless network of all possible applications also allow centralized management via user-interface.

ENS202 built-in encryption standards (IEEE802.1x, WEP, WPA, WPA2, TKIP/AES for CB/CR modes) ensure full-scale security protection. Along with Proprietary PoE support excellent long-range network installation when used in conjunction with its outdoor family ENH210EXT and ENH700EXT.

*Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.
** All specifications are subject to change without notice

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FEATURES	
HARDWARE FEATURES	
High output power	Transmit high output power programmable for different country selections
High Data Rate	High speed transmitting rate up to 300Mbps with 2T2R 802.11n
Long range transmitting	Transmit power control and distance control (ACK timeout)
Signal Strength Display	Indicate RF signal strength to be shown as LEDs of 3 colors, making network build-up easier. LED indicators have the best transmit and receive signal for traffic communication
PoE Support	Support proprietary 24V passive power over Ethernet
SOFTWARE	
Multiple SSID	4 SSID supported. Each SSID can set itself wireless or WAN access setting
PPPoE	Point-to-Point Protocol over Ethernet at Client Router mode. This function will keep trying when failed or disconnected
PPTP	Point-to-Point Tunneling Protocol (PPTP) is a method for implementing virtual private networks
VLAN Pass-through	Support VLAN Pass-through
WiFi Scheduling	User could set a schedule for turning-on/off WiFi Radio
Firmware Upgrade	Upgrading firmware via web browser, setting are reserved after upgrade
Reset & Backup	Reset to factory default. User can export all setting into a file via WEB
Ping & Trace Route	Built-in PING function & Trace Route function in Web GUI
MIB	MIB I, MIB II (RFC1213), Private MIB
SNMP	V1, V2c, V3

SPECIFICATIONS	
HARDWARE SPECIFICATIONS	
MCU	Atheros AR9341
RF	N/A
Memory	64MB
Flash	16MB

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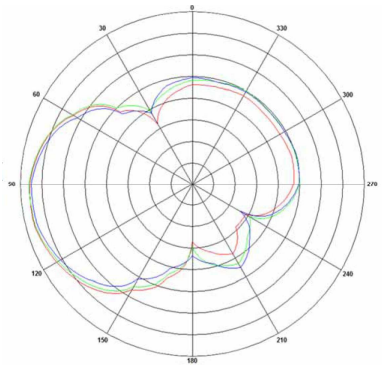
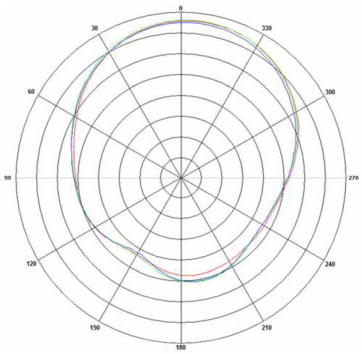
<table>
<tr><td>Physical Interface</td><td>2 x RJ-45 for 10/100 Fast Ethernet
1 x Reset Button</td></tr>
<tr><td>Power Requirements</td><td>- Active Ethernet (Power over Ethernet)
- Proprietary PoE design
- Power Adapter 24V / 0.6A</td></tr>
<tr><td colspan="2">RF SPECIFICATIONS</td></tr>
<tr><td>Available transmit power (ERIP)</td><td>19dBm</td></tr>
<tr><td>Frequency Band</td><td>802.11b/g/n</td></tr>
<tr><td>Data rate</td><td>300Mbps</td></tr>
<tr><td>RF Specification (Aggregated Value)</td><td>
<table>
<tr><th>Channel</th><th>Data Rate</th><th>Transmit Power (Aggregated, dBm)</th><th>Receive Sensitivity (Aggregated, dBm)</th></tr>
<tr><td rowspan="4">802.11b 2.4 GHz</td><td>1 Mbps</td><td>19</td><td>-95.0</td></tr>
<tr><td>2 Mbps</td><td>19</td><td>-95.0</td></tr>
<tr><td>5.5 Mbps</td><td>19</td><td>-93.0</td></tr>
<tr><td>11 Mbps</td><td>19</td><td>-93.0</td></tr>
<tr><td rowspan="2">802.11g 2.4 GHz</td><td>6 Mbps</td><td>19</td><td>-95.0</td></tr>
<tr><td>54 Mbps</td><td>18</td><td>-75.0</td></tr>
<tr><td rowspan="2">802.11n HT20 2.4 GHz</td><td>MCS 0 / 8 / 16</td><td>19</td><td>-95.0</td></tr>
<tr><td>MCS 7 / 15 / 23</td><td>14</td><td>-73.0</td></tr>
<tr><td rowspan="2">802.11n HT40 2.4 GHz</td><td>MCS 0 / 8 / 16</td><td>19</td><td>-95.0</td></tr>
<tr><td>MCS 7 / 15 / 23</td><td>13</td><td>-73.0</td></tr>
</table>
*Maximum performance of the hardware provided. Maximum transmit power is limited by local regulatory.
*The supported frequency band is restricted by local regulatory requirements.
*Transmit power is configured in 1.0dBm increments.
</td></tr>
<tr><td>Antenna specifications</td><td>
<table>
<tr><th>External Antenna</th><th>2.4GHz (Port1)</th><th>2.4GHz (Port2)</th></tr>
<tr><td>Average Antenna Gain</td><td>8dBi</td><td>8dBi</td></tr>
<tr><td>Azimuth Beam-Width</td><td>78°</td><td>54°</td></tr>
<tr><td>Elevation Beam-Width</td><td>45°</td><td>59°</td></tr>
<tr><td>VSWR</td><td>1:2.0</td><td>1:2.0</td></tr>
<tr><td colspan="3">Radiation Diagram</td></tr>
<tr><td colspan="2">Port1: E-Plane
  </td><td>Port1: H-Plane
  </td></tr>
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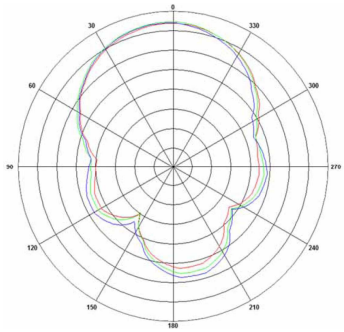
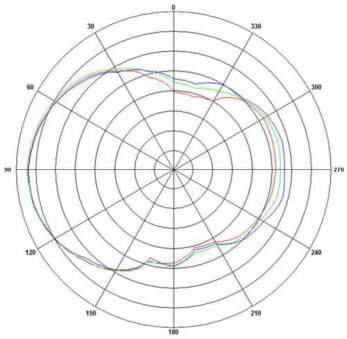
	Port2: E-Plane	Port2: H-Plane
		

SOFTWARE SPECIFICATIONS	
Operation Mode	Access Point / Client Bridge / Client Router / WDS
Wireless/Network	Auto Channel Selection (Setting varies by Regular Domains) Obey Regulatory Power Distance Control (802.1x Ack timeout) CLI Supported 802.1x Supplicant (CB Mode) Multiple SSID (4 SSID), BSSID WDS AP / WDS Bridge / WDS Station Multicast Supported RADIUS Accounting VLAN Tag / VLAN Pass-through Auto Reboot WiFi Scheduling
Security	WEP Encryption-64/128/152 bit WPA/WPA2 Personal (WPA-PSK using TKIP or AES) WPA/WPA2 Enterprise (WPA-EAP using TKIP) Hide SSID in beacons MAC address filtering, up to 50 field Wireless STA (Client) connected list
QoS	WMM

ENVIRONMENT AND MECHANICAL	
Temperature Range	Operating -20℃~70℃ Storage -30℃ to 80℃
Humidity (non-condensing)	0%～90% typical
Dimensions	186mm (L) x 100mm (W) x 29mm (H)
Weight	300g

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PACKAGE CONTENT
► 1 x ENS202
► 1 x Power Adapter (24V/0.6A)
► 1 x PoE Injector (EPE1212)
► 1 x Pole Mount Set
► 1 x Screw Set
► 1 x Technical Support Card

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