# ARS-2131-LTE

Industrial 802.11a/b/g/n WiFi Access Point with LTE Router Capabilities
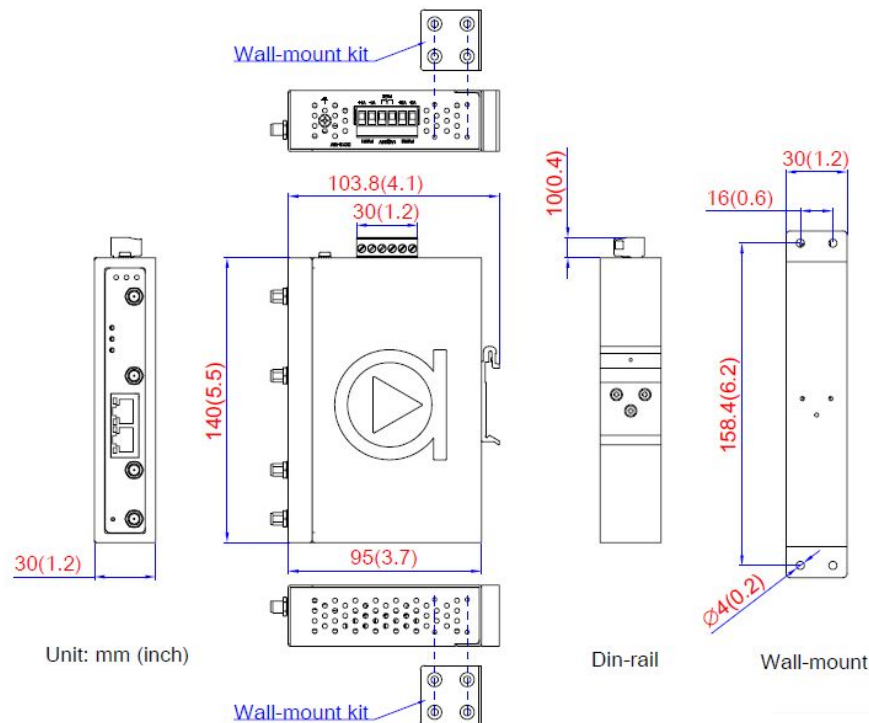
## Features

- ▶ Industrial 2x2 MIMO
- ▶ Cellular Modem with LTE up to 100Mbps
- ▶ Supports IEEE 802.11 a/b/g/n
- ▶ Supports 2*10/100Base-TX WAN/LAN Ports
- ▶ Tx Power 21 dB for 2.4GHz
- ▶ WPA, WPA2, TKIP, AES
- ▶ Power Input: 9~48VDC in 6-Pin Terminal Block
- ▶ Reverse Polarity Protection
- ▶ IP30 Protection
- ▶ DIN-Rail and Wall Mountable
- ▶ Operating Temperature – STD: 0°C to 60°C; EOT: -35°C to 70°C
- ▶ 5-Year Warranty

## INTRODUCTION

**Antaira Technologies' ARS-2131 series** is a single radio industrial 802.11a/b/g/n wireless LAN access point with cellular modem. Take full advantage of the cutting-edge 4G LET network with this device, which can achieve download speeds of up to 100Mbps and allow 4G LTE network sharing with multiple 2.4G wireless devices for cloud platform monitoring, inspection and maintenance from remote industrial application sites. IT boasts network robustness, stability, and a wide network coverage with a very low voltage input of 9V. The ARS-2131 series is capable of operating in different modes, which makes it suitable for a wide variety of wireless applications including long-distance deployments. The unit also allows the user to position the wireless antennas in a better signal-broadcasting location for improved wireless coverage and signal strength or simply in a more convenient location.

## DIMENSIONS

Wall-mount kit

103.8(4.1)

30(1.2)

140(5.5)

30(1.2)

95(3.7)

10(0.4)

30(1.2)

16(0.6)

158.4(6.2)

⌀4(0.2)

Unit: mm (inch)

Wall-mount kit

Din-rail

Wall-mount

# SPECIFICATIONS

## Technology

| | |
|---|---|
| **Protocol** | IP, TCP, UDP, ARP, BOOTP, ICMP, HTTP, HTTPS, DNS Proxy, NTP, RADIUS, Dynamic DNS, SNMP |
| **IEEE** | IEEE 802.11 a/b/g/n<br>IEEE 802.3 10Base-T Ethernet<br>IEEE 802.3u 100Base-TX Fast Ethernet |
| **WLAN Operation Mode** | AP/Client/Bridge/Repeater |
| **Encryption Security** | WPA, WPA2, WPA3, WEP, TKIP, AES |

## Interface

| | |
|---|---|
| **Ethernet Port** | 2*10/100Tx |
| **WLAN** | Single Radio 2.4GHz |
| **Antenna** | 2*External Antennas |
| **LED Indicators** | Power, Fault, Wi-Fi Signal, Link, Activity |

## Cellular

| | |
|---|---|
| **Air Interface** | LTE,HSPA+,GSM/GPRS/<br>EDGE, EV-DO Rev A, |
| **Technology** | CAT-3 LTE |
| **LTE** | B1 (2100)<br>B3 (1800)<br>B7 (2600)<br>B8 (900)<br>B20 (800DD) |
| **3G** | B1 (2100)<br>B2 (1900)<br>B19 (800)<br>B26 (850)<br>B8 (900) |
| **2G** | B5 (850)<br>B8 (900)<br>B3 (1800)<br>B2 (1900) |

## Mechanical Characteristics

| | |
|---|---|
| **Housing** | Metal, IP30 Protection |
| **Dimensions** | 30 x 140 x 95mm (W*H*D) |
| **Weight** | Unit: 0.60 lb.<br>Shipping: 1.0 lb. |
| **Mounting** | DIN-Rail, Wall Mounting |

## Power Requirement

| | |
|---|---|
| **Input Voltage** | 9~48VDC, Redundant Input |
| **Power Connection** | 6-Pin Terminal Block |
| **Reverse Polarity Protection** | Present |
| **Overload Current Protection** | Present |
| **Power Consumption** | 8 Watts |

## Environmental Limits

| | |
|---|---|
| **Operating Temperature** | STD: -10° to 60° C<br>EOT: -35° to 70° C |
| **Storage Temperature** | -40°C ~ 90°C |
| **Ambient Relative Humidity** | 5 to 95%, (non-condensing) |

## Regulatory Approvals

| | |
|---|---|
| **EMI** | FCC Part 15 Subpart B<br>CE EN 55032<br>EN301489-1/-17<br>FCC Part 15 Subpart B<br>CNS13438<br>AS/NZS CSIPR 32 |
| **EMS** | CE EN 55024<br>IEC61000-4-2 (ESD),<br>IEC61000-4-3 (RS),<br>IEC61000-4-4 (EFT),<br>IEC61000-4-5 (Surge),<br>IEC61000-4-6 (CS),<br>IEC61000-4-8 (Magnetic Field)<br>IEC61000-4-11 |
| **Free Fall** | IEC60068-2-32 |
| **Shock** | IEC60068-2-27 |
| **Vibration** | IEC60068-2-6 |
| **Green** | RoHS Compliant |
| **Certifications** | FCC, CE |
| **Warranty** | 5 Years |

# ORDERING INFO

| | |
|---|---|
| **ARS-2131-LTE** | Industrial 802.11a/b/g/n WiFi Access Point with LTE Router capabilities, STD: -10°C to 60°C |
| **ARS-2131-LTE-T** | Industrial 802.11a/b/g/n WiFi Access Point with LTE Router capabilities; EOT: -35°C to 70°C |