AWK-3131A Series

Industrial IEEE 802.11a/b/g/n wireless AP/bridge/client



Features and Benefits

- IEEE 802.11a/b/g/n AP/bridge/client support
- · Easy setup and deployment with AeroMag
- Millisecond-level Client-based Turbo Roaming¹
- Complete redundancy with AeroLink Protection
- Integrated antenna and power isolation
- -40 to 75°C operating temperature range (-T models)
- · 5 GHz DFS channel support

Certifications









Introduction

The AWK-3131A 3-in-1 industrial wireless AP/bridge/client meets the growing need for faster data transmission speeds by supporting IEEE 802.11n technology with a net data rate of up to 300 Mbps. The AWK-3131A is compliant with industrial standards and approvals covering operating temperature, power input voltage, surge, ESD, and vibration. The two redundant DC power inputs increase the reliability of the power supply, and the AWK-3131A can be powered via PoE to make deployment easier. The AWK-3131A can operate on either the 2.4 or 5 GHz bands and is backwards-compatible with existing 802.11a/b/g deployments to future-proof your wireless investments.

Advanced 802.11n Industrial Wireless Solution

- 802.11a/b/g/n compliant AP/bridge/client for flexible deployment
- . Software optimized for long-distance wireless communication with up to 1 km line of sight and external high-gain antenna (available only on 5
- · Supports 60 clients connected concurrently
- . DFS channel support allows a wider range of 5 GHz channel selection to avoid interference from existing wireless infrastructure

Advanced Wireless Technology

- AeroMag supports error-free setup of your industrial applications' fundamental WLAN settings
- Seamless roaming with client-based Turbo Roaming¹ for < 150 ms roaming recovery time between APs (Client Mode)
- · Supports AeroLink Protection for creating a redundant wireless link (< 300 ms recovery time) between APs and their clients

Industrial Ruggedness

- Integrated antenna and power isolation designed to provide 500 V insulation protection against external electrical interference
- Hazardous location wireless communication with Class I Div. II and ATEX Zone 2 certifications
- -40 to 75°C wide operating temperature models (-T) provided for smooth wireless communication in harsh environments

Specifications

WLAN Interface

WLAN Standards	802.11a/b/g/n 802.11i Wireless Security
Modulation Type	DSSS MIMO-OFDM OFDM
Frequency Band for US (20 MHz operating channels)	2.412 to 2.462 GHz (11 channels)

The Turbo Roaming recovery time indicated herein is an average of test results documented, in optimized conditions, across APs configured with interference-free 20-MHz RF channels, WPA2-PSK security, and default Turbo Roaming parameters. The clients are configured with 3-channel roaming at 100 Kbps traffic load. Other conditions may also impact roaming performance. For more information about Turbo Roaming parameter settings, refer to the product manual.



	5.180 to 5.240 GHz (4 ch 5.260 to 5.320 GHz (4 ch 5.500 to 5.700 GHz (11 c 5.745 to 5.825 GHz (5 ch	annels)² hannels)²		
Frequency Band for EU (20 MHz operating channels)	2.412 to 2.472 GHz (13 c 5.180 to 5.240 GHz (4 ch 5.260 to 5.320 GHz (4 ch 5.500 to 5.700 GHz (11 c	annels) annels)²		
Frequency Band for JP (20 MHz operating channels)	2.412 to 2.484 GHz (14 ct 5.180 to 5.240 GHz (4 ct 5.260 to 5.320 GHz (4 ct 5.500 to 5.700 GHz (11 ct	annels) annels)²		
Wireless Security	WEP encryption (64-bit a WPA/WPA2-Enterprise (WPA/WPA2-Personal		, TKIP, AES)	
Transmission Rate	802.11b: 1 to 11 Mbps 802.11a/g: 6 to 54 Mbps 802.11n: 6.5 to 300 Mbps	5		
Transmitter Power for 802.11a	23±1.5 dBm @ 6 to 24 M 21±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 48 Mbps 18±1.5 dBm @ 54 Mbps	bps		
Transmitter Power for 802.11b	26±1.5 dBm @ 1 Mbps 26±1.5 dBm @ 2 Mbps 26±1.5 dBm @ 5.5 Mbps 25±1.5 dBm @ 11 Mbps			
Transmitter Power for 802.11g	23±1.5 dBm @ 6 to 24 M 21±1.5 dBm @ 36 Mbps 19±1.5 dBm @ 48 Mbps 18±1.5 dBm @ 54 Mbps	bps		
Transmitter Power for 802.11n (2.4 GHz)	23±1.5 dBm @ MCS0/8 2 18±1.5 dBm @ MCS7/15 23±1.5 dBm @ MCS0/8 4 17±1.5 dBm @ MCS7/15	20 MHz 0 MHz		
Transmitter Power for 802.11n (5 GHz)	23±1.5 dBm @ MCS0/8 2 18±1.5 dBm @ MCS7/15 23±1.5 dBm @ MCS0/8 4 17±1.5 dBm @ MCS7/15	20 MHz 0 MHz		
Transmitter Power		US	EU	JP
	2.4 GHz	26 dBm	18 dBm	18 dBm
	5 GHz (UNII-1)	23 dBm	21 dBm	21 dBm
	5 GHz (UNII-2)	23 dBm	21 dBm	21 dBm
	5 GHz (UNII-2e)	23 dBm	23 dBm	23 dBm
	5 GHz (UNII-3)	23 dBm	-	-
	Note: Based on regiona the UNII bands is restri	•		power allowed on
Receiver Sensitivity for 802.11a	-90 dBm @ 6 Mbps -88 dBm @ 9 Mbps -88 dBm @ 12 Mbps -85 dBm @ 18 Mbps -81 dBm @ 24 Mbps			

^{2.} DFS (Dynamic Frequency Selection) channel support: In AP mode, when a radar signal is detected, the device will automatically switch to another channel. However, according to regulations, after switching channels, a 60-second availability check period is required before starting the service.



	-78 dBm @ 36 Mbps -74 dBm @ 48 Mbps -72 dBm @ 54 Mbps
Receiver Sensitivity for 802.11b	-93 dBm @ 1 Mbps -93 dBm @ 2 Mbps -93 dBm @ 5.5 Mbps -88 dBm @ 11 Mbps
Receiver Sensitivity for 802.11g	-88 dBm @ 6 Mbps -86 dBm @ 9 Mbps -85 dBm @ 12 Mbps -85 dBm @ 18 Mbps -85 dBm @ 24 Mbps -82 dBm @ 36 Mbps -78 dBm @ 48 Mbps -74 dBm @ 54 Mbps
Receiver Sensitivity for 802.11n (2.4 GHz)	-70 dBm @ MCS7 20 MHz -69 dBm @ MCS15 20 MHz -67 dBm @ MCS7 40 MHz -67 dBm @ MCS15 40 MHz
Receiver Sensitivity for 802.11n (5 GHz)	-69 dBm @ MCS7 20 MHz -71 dBm @ MCS15 20 MHz -63 dBm @ MCS7 40 MHz -68 dBm @ MCS15 40 MHz
WLAN Operation Mode	Access point, Client, Client-Router, Master, Slave, Sniffer
Antenna	External, 2/2 dBi, Omni-directional
Antenna Connectors	2 RP-SMA female
Ethernet Interface	
PoE Ports (10/100/1000BaseT(X), RJ45 connector)	1
Standards	IEEE 802.1D-2004 for Spanning Tree Protocol IEEE 802.1Q for VLAN Tagging IEEE 802.1w for Rapid Spanning Tree Protocol IEEE 802.1X for authentication IEEE 802.3 for 10BaseT IEEE 802.3ab for 1000BaseT(X) IEEE 802.3af for PoE IEEE 802.3u for 100BaseT(X)
Ethernet Software Features	
Management	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Wireless Search Utility, VLAN, MXview, MXconfig
Redundancy Protocols	RSTP, STP
Security	HTTPS/SSL, RADIUS, SSH
Time Management	SNTP Client
Unicast Routing	Static Route
Firewall	
Filter	ICMP, MAC address, IP protocol, Port-based
Serial Interface	
Console Port	RS-232, 8-pin RJ45
LED Interface	
LED Indicators	PWR1, PWR2, PoE, FAULT, STATE, SIGNAL, WLAN, LAN



2	Input/Output Interface	
Physical Characteristics	Digital Inputs	Max. input current: 8 mA +13 to +30 V for state 1
Physical Characteristics	Alarm Contact Channels	Relay output with current carrying capacity of 1 A @ 24 VDC
Housing Metal IP Rating IP 30	Buttons	Reset button
IP30	Physical Characteristics	
Dimensions	Housing	Metal
Weight	IP Rating	IP30
Installation DIN-rail mounting, Wall mounting (with optional kit) Power Parameters Input Current 0.6 A @ 12 VDC, 0.15 A @ 48 VDC Input Voltage 12 to 48 VDC, Redundant dual inputs, 48 VDC Power-over-Ethernet 1 removable 10-contact terminal block(s) Power Consumption 7.2 W (max.) Reverse Polarity Protection Supported Environmental Limits Operating Temperature Standard Models: -25 to 60°C (-13 to 140°F) Wide Temp, Models: -40 to 75°C (-40 to 167°F) Storage Temperature (package included) -40 to 85°C (-40 to 185°F) Ambient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications EMC EN 61000-6-2/-6-4 EMI CISPR 32, FCC Part 15B Class B EMS IEC 61000-4-2 ESD: Contact: 8 ky, Air: 15 kV IEC 61000-4-4 EFF: Power: 2 kV; Signal: 1 kV IEC 61000-4-4 SET; Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-8 GS: 3 V IEC 61000-4-8 DFMF Hazardous Locations ATEX, Class I Division 2, IECEx ANATEL. EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-WAPN008, MIC, NCC, RCM, SRRC, WPC, KC, RCM Safety EN 60950-1, UL 60950-1 Vibration MTBF Time 570,854 hrs	Dimensions	52.7 x 135 x 105 mm (2.08 x 5.32 x 4.13 in)
Power Parameters Input Current Input Voltage 12 to 48 VDC, Redundant dual inputs, 48 VDC Power-over-Ethernet Power Connector 1 removable 10-contact terminal block(s) Power Consumption 7.2 W (max.) Reverse Polarity Protection Supported Environmental Limits Operating Temperature Standard Models: -25 to 60°C (-13 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F) Storage Temperature (package included) -40 to 85°C (-40 to 185°F) Ambient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications EMC EN 61000-6-2/-6-4 EMI GISPR 32, FCC Part 15B Class B EMS IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-2 ESD: Contact: 8 kV; Signal: 2 kV IEC 61000-4-2 ESP: Power: 2 kV; Signal: 2 kV IEC 61000-4-2 ESP: Power: 2 kV; Signal: 1 kV IEC 61000-4-3 RS: 3 lDivision 2; IECEX Radio ANATEL, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-WAPN008, MIC, NCC, RCM, SRRC, WPC, KC, RCM Safety India Contact: 8 kV; Air: 15 kV IEC 60068-2-6 MTBF Time 570,854 hrs	Weight	860 g (1.9 lb)
Input Current O, 6 A @ 12 VDC, 0.15 A @ 48 VDC Input Voltage 12 to 48 VDC, Redundant dual inputs, 48 VDC Power-over-Ethernet Power Connector 1 removable 10-contact terminal block(s) Power Consumption 7.2 W (max.) Reverse Polarity Protection Supported Environmental Limits Operating Temperature Standard Models: -25 to 60°C (-13 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 187°F) Storage Temperature (package included) -40 to 85°C (-40 to 185°F) Ambient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications EMC EN 61000-6-2/-6-4 EMI CISPR 32, FCC Part 15B Class B EMS #EG 61000-4-2 SED: Contact: 8 kV; Air; 15 kV #EG 61000-4-4 SET: Power: 2 kV; Signal: 1 kV #EG 61000-4-4 SET: Power: 2 kV; Signal: 1 kV #EG 61000-4-5 CS: 3 V #EC 61000-4-5 PFMF Hazardous Locations Radio ANATEL, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-WAPN008, MIC, NCC, RCM, SRRC, WPC, KC, RCM Vibration #TIFF Time 570,854 hrs	Installation	DIN-rail mounting, Wall mounting (with optional kit)
Input Voltage 12 to 48 VDC, Redundant dual inputs, 48 VDC Power-over-Ethernet 1 removable 10-contact terminal block(s) 7.2 W (max.) Reverse Polarity Protection Supported Environmental Limits Operating Temperature Standard Models: -25 to 60°C (-13 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F) Storage Temperature (package included) -40 to 85°C (-40 to 185°F) Ambient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications EMC EN 61000-6-2/-6-4 EMI CISPR 32, FCC Part 15B Class B EMS IEC 61000-4-2 ESD: Contact: 8 KV; Air: 15 KV (EC 61000-4-2 FF) (Power: 2 kV; Signal: 2 kV) (EC 61000-4-5 CS: 3 V)	Power Parameters	
Power Connector 1 removable 10-contact terminal block(e) Power Consumption 7.2 W (max.) Reverse Polarity Protection Supported Environmental Limits Operating Temperature Standard Models: -25 to 60°C (-13 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F) Storage Temperature (package included) -40 to 85°C (-40 to 185°F) Ambient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications EMC EN 61000-6-2/-6-4 EMI CISPR 32, FCC Part 15B Class B EMS IEC 61000-4-2 ESD: Contact 8 kV; Air. 15 kV IEC 61000-4-3 RS: 90 MHz to 1 GHz: 3 V/m IEC 61000-4-9 Surge; Power; 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-8 CS: 3 V IEC 61000-4-8 CS: 3 V IEC 61000-4-9 CS: 3 V IEC 610	Input Current	0.6 A @ 12 VDC, 0.15 A @ 48 VDC
Power Consumption 7.2 W (max.) Reverse Polarity Protection Supported Environmental Limits Operating Temperature Standard Models: -25 to 60°C (-13 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F) Storage Temperature (package included) -40 to 85°C (-40 to 185°F) Ambient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications EMC EN 61000-6-2/-6-4 EMI CISPR 32, FCC Part 15B Class B EMS IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-2 FFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 EST: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 PFMF Hazardous Locations ATEX, Class I Division 2, IECEX Radio ANATEL, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-WAPN008, MIC, NCC, RCM, SRRC, WPC, KC, RCM MTBF Time 570,854 hrs	Input Voltage	12 to 48 VDC, Redundant dual inputs, 48 VDC Power-over-Ethernet
Environmental Limits Operating Temperature Standard Models: -25 to 60°C (-13 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F) Storage Temperature (package included) -40 to 85°C (-40 to 185°F) Ambient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications EMC EN 61000-6-2/-6-4 EMI CISPR 32, FCC Part 15B Class B EMS IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-2 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-2 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-8 PFMF Hazardous Locations ATEX, Class I Division 2, IECEX Radio ANATEL, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-WAPN008, MIC, NCC, RCM, SRRC, WPC, KC, RCM Safety EN 60950-1, UL 60950-1 Vibration IEC 60068-2-6 MTBF Time 570,854 hrs	Power Connector	1 removable 10-contact terminal block(s)
Environmental Limits Operating Temperature Standard Models: -25 to 60°C (-13 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F) Storage Temperature (package included) -40 to 85°C (-40 to 185°F) Ambient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications EMC EN 61000-6-2/-6-4 EMI CISPR 32, FCC Part 15B Class B EMS IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-8 CS: 3 V IEC 61000-4-8 PFMF Hazardous Locations ATEX, Class I Division 2, IECEx Radio ANATEL, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-WAPN008, MIC, NCC, RCM, SRRC, WPC, KC, RCM Safety EN 60950-1, UL 60950-1 Vibration IEC 60068-2-6 MTBF Time 570,854 hrs	Power Consumption	7.2 W (max.)
Operating Temperature Standard Models: -25 to 60°C (-13 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F) Storage Temperature (package included) -40 to 85°C (-40 to 185°F) Ambient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications EMC EN 61000-6-2/-6-4 EMI CISPR 32, FCC Part 15B Class B EMS IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 GS: 3V IEC 61000-4-8 FFMF Hazardous Locations ATEX, Class I Division 2, IECEx Radio ANATEL, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-WAPN008, MIC, NCC, RCM, SRRC, WPC, KC, RCM Safety EN 60950-1, UL 60950-1 Vibration MTBF Time 570,854 hrs	Reverse Polarity Protection	Supported
Wide Temp. Models: -40 to 75°C (-40 to 167°F)	Environmental Limits	
Ambient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications EMC EN 61000-6-2/-6-4 EMI CISPR 32, FCC Part 15B Class B EMS IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-5 FT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-8 PFMF Hazardous Locations ATEX, Class I Division 2, IECEx Radio ANATEL, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-WAPN008, MIC, NCC, RCM, SRRC, WPC, KC, RCM Safety EN 60950-1, UL 60950-1 Vibration IEC 60068-2-6 MTBF Time 570,854 hrs	Operating Temperature	
Standards and Certifications	Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
EMC EN 61000-6-2/-6-4 EMI CISPR 32, FCC Part 15B Class B EMS IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-6 CS: 3 V IEC 61000-4-8 PFMF Hazardous Locations ATEX, Class I Division 2, IECEX Radio ANATEL, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-WAPN008, MIC, NCC, RCM, SRRC, WPC, KC, RCM Safety EN 60950-1, UL 60950-1 Vibration IEC 60068-2-6 MTBF Time 570,854 hrs	Ambient Relative Humidity	5 to 95% (non-condensing)
EMS IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-8 PFMF Hazardous Locations	Standards and Certifications	
EMS IEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EST: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-8 PFMF Hazardous Locations ATEX, Class I Division 2, IECEX Radio ANATEL, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-WAPN008, MIC, NCC, RCM, SRRC, WPC, KC, RCM Safety EN 60950-1, UL 60950-1 Vibration IEC 60068-2-6 MTBF Time 570,854 hrs	EMC	EN 61000-6-2/-6-4
IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-8 PFMF Hazardous Locations ATEX, Class I Division 2, IECEx Radio ANATEL, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-WAPN008, MIC, NCC, RCM, SRRC, WPC, KC, RCM Safety EN 60950-1, UL 60950-1 Vibration IEC 60068-2-6 MTBF Time 570,854 hrs	ЕМІ	CISPR 32, FCC Part 15B Class B
Radio ANATEL, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-WAPN008, MIC, NCC, RCM, SRRC, WPC, KC, RCM Safety EN 60950-1, UL 60950-1 Vibration IEC 60068-2-6 MTBF 570,854 hrs	EMS	IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 3 V
RCM, SRRC, WPC, KC, RCM Safety EN 60950-1, UL 60950-1 Vibration IEC 60068-2-6 MTBF Time 570,854 hrs	Hazardous Locations	ATEX, Class I Division 2, IECEx
Vibration IEC 60068-2-6 MTBF 570,854 hrs	Radio	
MTBF Time 570,854 hrs	Safety	EN 60950-1, UL 60950-1
Time 570,854 hrs	Vibration	IEC 60068-2-6
	MTBF	
Standards Telcordia SR332	Time	570,854 hrs
	Standards	Telcordia SR332

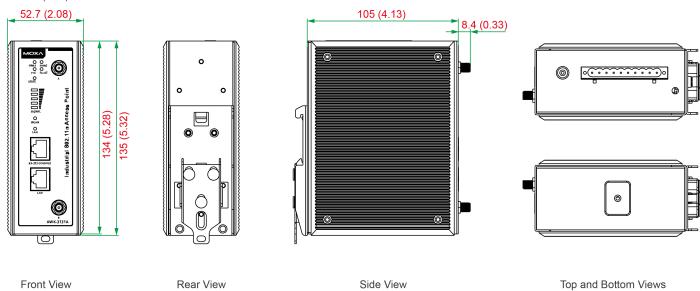


Warranty

Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x AWK-3131A Series wireless AP/bridge/client
Installation Kit	2 x cap, plastic, for RJ45 port 1 x DIN-rail kit 1 x cable holder with screw
Antenna	2 x 2.4/5 GHz antenna
Documentation	1 x quick installation guide 1 x warranty card

Dimensions

Unit: mm (inch)



Ordering Information

Model Name	Band	Standards	Operating Temp.
AWK-3131A-EU	EU	802.11a/b/g/n	-25 to 60°C
AWK-3131A-EU-T	EU	802.11a/b/g/n	-40 to 75°C
AWK-3131A-JP	JP	802.11a/b/g/n	-25 to 60°C
AWK-3131A-JP-T	JP	802.11a/b/g/n	-40 to 75°C
AWK-3131A-US	US	802.11a/b/g/n	-25 to 60°C
AWK-3131A-US-T	US	802.11a/b/g/n	-40 to 75°C

Accessories (sold separately)

Antennas

ANT-WDB-ANF-0407	2.4/5 GHz, omni-directional antenna, 4/7 dBi, N-type (male)
ANT-WDB-ANF-0609	2.4/5 GHz, omni-directional antenna, 6/9 dBi, N-type (female)
ANT-WDB-ANM-0306	2.4/5 GHz, omni-directional antenna, 3/6 dBi, N-type (male)
ANT-WDB-ANM-0407	Dual-band omni-directional antennas, 4 dBi at 2.4 GHz or 7 dBi at 5 GHz



ANT-WDB-ANM-0502	2.4/5 GHz, omni-directional antenna, 5/2 dBi, N-type (male)
ANT-WDB-ANM-0609	2.4/5 GHz, omni-directional antenna, 6/9 dBi, N-type (male)
ANT-WDB-ARM-02	2.4/5 GHz, omni-directional rubber duck antenna, 2 dBi, RP-SMA (male)
ANT-WDB-ARM-0202	2.4/5 GHz, panel antenna, 1.8/1.8 dBi, RP-SMA (male)
ANT-WDB-PNF-1518	2.4/5 GHz, panel antenna, 15/18 dBi, N-type (female)
MAT-WDB-CA-RM-2-0205	2.4/5 GHz, ceiling antenna, 2/5 dBi, MIMO 2x2, RP-SMA-type (male)
MAT-WDB-DA-RM-2-0203-1m	2.4/5 GHz, desktop antenna, 2/3 dBi, MIMO 2x2, RP-SMA-type (male), 1 m cable
MAT-WDB-PA-NF-2-0708	2.4/5 GHz, panel antenna, 7/8 dBi, MIMO 2x2, N-type (female)
ANT-WSB5-ANF-12	5 GHz, omni-directional antenna, 12 dBi, N-type (female)
ANT-WSB5-PNF-18	5 GHz, directional panel antenna, 18 dBi, N-type (female)
ANT-WSB-ANF-09	2.4 GHz, omni-directional antenna, 9 dBi, N-type (female)
ANT-WSB-PNF-12	2.4 GHz, directional panel antenna, 12dBi, N-type (female)
ANT-WSB-PNF-18	2.4 GHz, directional panel antenna, 18 dBi, N-type (female)
ANT-WSB-AHRM-05-1.5m	2.4 GHz, omni-directional/dipole antenna, 5 dBi, RP-SMA (male), 1.5 m cable

Wireless Adaptors

A-ADP-RJ458P-DB9F-ABC01 DB9 female to RJ45 connector for the ABC-01

Wireless Antenna Cable

A-CRF-RFRM-R4-150	RF magnetic stand, RP-SMA (male) to RP-SMA (female), RG-174/U cable, 1.5 m
A-CRF-RFRM-S2-60	SS402 cable, RP-SMA (male) to RP-SMA (female)
A-CRF-RMNM-L1-300	N-type (male) to RP SMA (male), LMR-195 Lite cable, 3 m
A-CRF-RMNM-L1-600	N-type (male) to RP SMA (male), LMR-195 Lite cable, 6 m
A-CRF-RMNM-L1-900	N-type (male) to RP SMA (male), LMR-195 Lite cable, 9 m

Surge Arrestor

A-SA-NFNF-01	Surge arrestor, N-type (female) to N-type (female)
A-SA-NMNF-01	Surge arrester, N-type (female) to N-type (male)

Wireless Terminating Resistor

A-TRM-50-RM	Termination resistor, 50 ohms, N-type male
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Wireless Antenna Cable

Wall-Mounting Kits

WK-51-01 Wall-mounting kit, 2 plates, 6 screws, 51.6 x 67 x 2 mm	
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