AWK-1131A Series

Entry-level industrial IEEE 802.11a/b/g/n wireless AP/client



Features and Benefits

- IEEE 802.11a/b/g/n AP/client support
- · Client-based millisecond-level Turbo Roaming
- · Integrated antenna and power isolation
- · 5 GHz DFS channel support

Certifications









Introduction

The AWK-1131A industrial wireless AP/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-1131A 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. The AWK-1131A 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.

Improved Higher Data Rate and Channel Capacity

- High-speed wireless connectivity with up to 300 Mbps data rate
- · MIMO technology to improve the capability of transmitting and receiving multiple data streams
- · Increased channel width with channel bonding technology
- · Supports flexible channel selection to build up wireless communication system with DFS

Specifications for Industrial-Grade Applications

- Redundant DC power inputs
- · Integrated isolation design with enhanced protection against environmental interference
- · Compact aluminum housing, IP30-rated

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) 5.180 to 5.240 GHz (4 channels) 5.260 to 5.320 GHz (4 channels) ¹ 5.500 to 5.700 GHz (11 channels) ¹ 5.745 to 5.825 GHz (5 channels)
Frequency Band for EU (20 MHz operating channels)	2.412 to 2.472 GHz (13 channels) 5.180 to 5.240 GHz (4 channels) 5.260 to 5.320 GHz (4 channels) ¹ 5.500 to 5.700 GHz (11 channels) ¹

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.



Prequency Band for JP (20 MHz operating channels)					
\(\text{WPA/WPA2-Personal} \) Transmission Rate 802.11b: 1 to 11 Mbps 802.11a/g 6 to 54 Mbps 802.11a/g 6 to 54 Mbps 802.11a/g 6 to 54 Mbps 802.11c 6.5 to 300 Mbps 20at.5 dBm @ 6 to 24 Mbps 10at.5 dBm @ 8 Mbps 20at.5 dBm @ 1 Mbps 20at.5 dBm @ 1 Mbps 20at.5 dBm @ 1 Mbps 20at.5 dBm @ 2 Mbps 20at.5 dBm @ 6 to 24 Mbps 21at.5 dBm @ 6 to 24 Mbps 11at.5 dBm @ 6 to 24 Mbps 11at.5 dBm @ 6 to 24 Mbps 11at.5 dBm @ 6 to 24 Mbps 12at.5 dBm @ 8 Mbps 13at.5 dBm @ 8 McS7/15 20 MHz 23at.5 dBm @ MCS7/15 40 MHz 17at.5 dBm @ MCS7/15 40 MHz 17at.5 dBm @ MCS7/15 40 MHz 17at.5 dBm @ MCS7/15 40 MHz 23at.5 dBm @ ACS7/15 4	Frequency Band for JP (20 MHz operating channels)	5.180 to 5.240 GHz (4 cha 5.260 to 5.320 GHz (4 cha	annels) annels)²		
802.11 a/g; 6 to 54 Mbps	Wireless Security	WPA/WPA2-Enterprise (I		, TKIP, AES)	
21±1.5 dBm @ 48 Mbps 20±1.5 dBm @ 48 Mbps 20±1.5 dBm @ 48 Mbps 20±1.5 dBm @ 48 Mbps 26±1.5 dBm @ 48 Mbps 26±1.5 dBm @ 28 Mbps 26±1.5 dBm @ 2 Mbps 26±1.5 dBm @ 2 Mbps 26±1.5 dBm @ 11 Mbps 26±1.5 dBm @ 11 Mbps 26±1.5 dBm @ 65.5 Mbps 25±1.5 dBm @ 11 Mbps 21±1.5 dBm @ 68 Mbps 19±1.5 dBm @ 68 Mbps 19±1.5 dBm @ 68 Mbps 18±1.5 dBm @ 68 Mbps 18±1.5 dBm @ 64 Mbps 23±1.5 dBm @ 64 Mbps 23±1.5 dBm @ MCS0/8 20 MHz 23±1.5 dBm @ MCS0/8 20 MHz 23±1.5 dBm @ MCS0/8 40 MHz 23±1.5 dBm @ MCS0/8 20 MHz 23±1.5 dBm @ MCS0/8 40 MHz 23±1.5	Transmission Rate	802.11a/g: 6 to 54 Mbps	S		
26±1.5 dBm @ 2 Mbps 26±1.5 dBm @ 15.5 Mbps 26±1.5 dBm @ 11 Mbps Transmitter Power for 802.11g 23±1.5 dBm @ 6 to 24 Mbps 21±1.5 dBm @ 36 Mbps 19±1.5 dBm @ 48 Mbps 19±1.5 dBm @ MCS07/15 20 MHz 23±1.5 dBm @ MCS7/15 20 MHz 23±1.5 dBm @ MCS7/15 40 MHz 23±1.5 dBm @ MCS7/15 40 MHz 23±1.5 dBm @ MCS7/15 40 MHz 17±1.5 dBm @ MCS7/15 40 MHz 23±1.5 dBm @ MCS7/15 40 MHz 23±1.	Transmitter Power for 802.11a	21±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 48 Mbps	ops		
21±1.5 dBm @ 36 Mbps 19±1.5 dBm @ 48 Mbps 19±1.5 dBm @ 48 Mbps 19±1.5 dBm @ 48 Mbps 19±1.5 dBm @ MCSO/8 20 MHz 18±1.5 dBm @ MCSO/8 20 MHz 18±1.5 dBm @ MCSO/8 40 MHz 17±1.5 dBm @ MCSO/8 40 MHz 17±1.5 dBm @ MCSO/15 40 MHz 18 dBm 18 dBm 18 dBm 18 dBm 18 dBm 18 dBm 19 dBm 21 dBm 23 dBm 24 dBm 24 dBm 25 dBz (UNII-2) 23 dBm	Transmitter Power for 802.11b	26±1.5 dBm @ 2 Mbps 26±1.5 dBm @ 5.5 Mbps			
18±1.5 dBm @ MCS7/15 20 MHz 23±1.5 dBm @ MCS0/8 40 MHz 17±1.5 dBm @ MCS0/8 20 MHz 18±1.5 dBm @ MCS0/8 20 MHz 18±1.5 dBm @ MCS7/15 20 MHz 23±1.5 dBm @ MCS7/15 40 MHz 17±1.5 dBm @ MCS7/15 40 MHz 17±1.5 dBm @ MCS7/15 40 MHz Transmitter Power US EU JP 2.4 GHz 26 dBm 18 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-2) 23 dBm 23 dBm 21 dBm 5 GHz (UNII-2) 23 dBm 5 GHz (UNII-2e) 23 dBm 5 GHz (UNII-3) 5 GHz (UNII-3) 5 GHz (UNII-3) 5 GHz (UNII-3) 8 dBm 6 GM bps -88 dBm @ 9 Mbps -88 dBm @ 12 Mbps -88 dBm @ 18 Mbps	Transmitter Power for 802.11g	21±1.5 dBm @ 36 Mbps 19±1.5 dBm @ 48 Mbps	ops		
18±1.5 dBm @ MCS7/15 20 MHz 23±1.5 dBm @ MCS7/15 40 MHz 17±1.5 dBm @ MCS7/15 40 MHz 17±1.5 dBm @ MCS7/15 40 MHz	Transmitter Power for 802.11n (2.4 GHz)	18±1.5 dBm @ MCS7/15 23±1.5 dBm @ MCS0/8 4	20 MHz 0 MHz		
2.4 GHz 26 dBm 18 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-2) 23 dBm 23 dBm 23 dBm 5 GHz (UNII-2e) 23 dBm 23 dBm 23 dBm 5 GHz (UNII-3) 23 dBm Note: Based on regional regulations, the maximum transmission power allowed on the UNII bands is restricted in the firmware, as indicated above. Receiver Sensitivity for 802.11a -90 dBm @ 6 Mbps -88 dBm @ 9 Mbps -88 dBm @ 12 Mbps -85 dBm @ 12 Mbps -85 dBm @ 18 Mbps	Transmitter Power for 802.11n (5 GHz)	18±1.5 dBm @ MCS7/15 23±1.5 dBm @ MCS0/8 4	20 MHz 0 MHz		
2.4 GHz 26 dBm 18 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 21 dBm 5 GHz (UNII-2e) 23 dBm 23 dBm 23 dBm 23 dBm 5 GHz (UNII-3) 23 dBm Note: Based on regional regulations, the maximum transmission power allowed of the UNII bands is restricted in the firmware, as indicated above. Receiver Sensitivity for 802.11a -90 dBm @ 6 Mbps -88 dBm @ 9 Mbps -88 dBm @ 12 Mbps -85 dBm @ 18 Mbps	Transmitter Power		110		
5 GHz (UNII-1) 23 dBm 21 dBm 21 dBm 5 GHz (UNII-2) 23 dBm 21 dBm 21 dBm 21 dBm 5 GHz (UNII-2e) 23 dBm 23 dBm 7 Note: Based on regional regulations, the maximum transmission power allowed of the UNII bands is restricted in the firmware, as indicated above. Receiver Sensitivity for 802.11a -90 dBm @ 6 Mbps -88 dBm @ 9 Mbps -88 dBm @ 12 Mbps -85 dBm @ 18 Mbps			US	EU	JP
5 GHz (UNII-2e) 23 dBm 21 dBm 21 dBm 5 GHz (UNII-2e) 23 dBm 23 dBm 5 GHz (UNII-3) 23 dBm - Note: Based on regional regulations, the maximum transmission power allowed on the UNII bands is restricted in the firmware, as indicated above. Receiver Sensitivity for 802.11a -90 dBm @ 6 Mbps -88 dBm @ 9 Mbps -88 dBm @ 12 Mbps -85 dBm @ 18 Mbps		2.4 GHz			
5 GHz (UNII-2e) 23 dBm 23 dBm 5 GHz (UNII-3) 23 dBm - Note: Based on regional regulations, the maximum transmission power allowed of the UNII bands is restricted in the firmware, as indicated above. Receiver Sensitivity for 802.11a -90 dBm @ 6 Mbps -88 dBm @ 9 Mbps -88 dBm @ 12 Mbps -85 dBm @ 18 Mbps			26 dBm	18 dBm	18 dBm
5 GHz (UNII-3) 23 dBm - Note: Based on regional regulations, the maximum transmission power allowed of the UNII bands is restricted in the firmware, as indicated above. Receiver Sensitivity for 802.11a -90 dBm @ 6 Mbps -88 dBm @ 9 Mbps -88 dBm @ 12 Mbps -85 dBm @ 18 Mbps		5 GHz (UNII-1)	26 dBm 23 dBm	18 dBm 21 dBm	18 dBm 21 dBm
Note: Based on regional regulations, the maximum transmission power allowed on the UNII bands is restricted in the firmware, as indicated above. Receiver Sensitivity for 802.11a -90 dBm @ 6 Mbps -88 dBm @ 9 Mbps -88 dBm @ 12 Mbps -85 dBm @ 18 Mbps		5 GHz (UNII-1) 5 GHz (UNII-2)	26 dBm 23 dBm 23 dBm	18 dBm 21 dBm 21 dBm	18 dBm 21 dBm 21 dBm
-88 dBm @ 9 Mbps -88 dBm @ 12 Mbps -85 dBm @ 18 Mbps		5 GHz (UNII-1) 5 GHz (UNII-2) 5 GHz (UNII-2e)	26 dBm 23 dBm 23 dBm 23 dBm	18 dBm 21 dBm 21 dBm	18 dBm 21 dBm 21 dBm
-78 dBm @ 36 Mbps -74 dBm @ 48 Mbps -72 dBm @ 54 Mbps		5 GHz (UNII-1) 5 GHz (UNII-2) 5 GHz (UNII-2e) 5 GHz (UNII-3) Note: Based on regiona	26 dBm 23 dBm 23 dBm 23 dBm 23 dBm 1 regulations, the max	18 dBm 21 dBm 21 dBm 23 dBm - ximum transmission p	18 dBm 21 dBm 21 dBm 23 dBm
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 802.11a	5 GHz (UNII-1) 5 GHz (UNII-2) 5 GHz (UNII-2e) 5 GHz (UNII-3) Note: Based on regiona the UNII bands is restricted90 dBm @ 6 Mbps -88 dBm @ 9 Mbps -88 dBm @ 12 Mbps -85 dBm @ 18 Mbps -81 dBm @ 24 Mbps -78 dBm @ 36 Mbps -74 dBm @ 48 Mbps	26 dBm 23 dBm 23 dBm 23 dBm 23 dBm 1 regulations, the max	18 dBm 21 dBm 21 dBm 23 dBm - ximum transmission p	18 dBm 21 dBm 21 dBm 23 dBm
Receiver Sensitivity for 802.11g -88 dBm @ 6 Mbps	·	5 GHz (UNII-1) 5 GHz (UNII-2) 5 GHz (UNII-2e) 5 GHz (UNII-3) Note: Based on regiona the UNII bands is restricted. -90 dBm @ 6 Mbps -88 dBm @ 9 Mbps -88 dBm @ 12 Mbps -85 dBm @ 18 Mbps -85 dBm @ 18 Mbps -78 dBm @ 36 Mbps -74 dBm @ 36 Mbps -74 dBm @ 48 Mbps -72 dBm @ 54 Mbps -93 dBm @ 1 Mbps -93 dBm @ 1 Mbps -93 dBm @ 2 Mbps -93 dBm @ 2 Mbps	26 dBm 23 dBm 23 dBm 23 dBm 23 dBm 1 regulations, the max	18 dBm 21 dBm 21 dBm 23 dBm - ximum transmission p	18 dBm 21 dBm 21 dBm 23 dBm

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.



	-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, Sniffer
Antenna	External, 2/2 dBi, Omni-directional
Antenna Connectors	2 RP-SMA female
Ethernet Interface 10/100/1000BaseT(X) Ports (RJ45 connector)	1
Standards	IEEE 802.1X for authentication IEEE 802.3 for 10BaseT IEEE 802.3ab for 1000BaseT(X)
	IEEE 802.3u for 100BaseT(X)
Ethernet Software Features	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
	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3,
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
Management Security	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Wireless Search Utility, VLAN, MXview, MXconfig HTTPS/SSL, RADIUS, SSH
Management Security Time 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 HTTPS/SSL, RADIUS, SSH
Management Security Time Management Firewall	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Wireless Search Utility, VLAN, MXview, MXconfig HTTPS/SSL, RADIUS, SSH SNTP Client
Management Security Time Management Firewall Filter	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Wireless Search Utility, VLAN, MXview, MXconfig HTTPS/SSL, RADIUS, SSH SNTP Client
Management Security Time Management Firewall Filter Serial Interface	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Wireless Search Utility, VLAN, MXview, MXconfig HTTPS/SSL, RADIUS, SSH SNTP Client ICMP, MAC address, IP protocol, Port-based
Management Security Time Management Firewall Filter Serial Interface Console Port	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Wireless Search Utility, VLAN, MXview, MXconfig HTTPS/SSL, RADIUS, SSH SNTP Client ICMP, MAC address, IP protocol, Port-based
Management Security Time Management Firewall Filter Serial Interface Console Port LED Interface	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Wireless Search Utility, VLAN, MXview, MXconfig HTTPS/SSL, RADIUS, SSH SNTP Client ICMP, MAC address, IP protocol, Port-based RS-232, 8-pin RJ45
Management Security Time Management Firewall Filter Serial Interface Console Port LED Interface LED Indicators	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Wireless Search Utility, VLAN, MXview, MXconfig HTTPS/SSL, RADIUS, SSH SNTP Client ICMP, MAC address, IP protocol, Port-based RS-232, 8-pin RJ45
Management Security Time Management Firewall Filter Serial Interface Console Port LED Interface LED Indicators Input/Output Interface Buttons Physical Characteristics	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Wireless Search Utility, VLAN, MXview, MXconfig HTTPS/SSL, RADIUS, SSH SNTP Client ICMP, MAC address, IP protocol, Port-based RS-232, 8-pin RJ45 PWR, FAULT, STATE, SIGNAL, WLAN, LAN
Management Security Time Management Firewall Filter Serial Interface Console Port LED Interface LED Indicators Input/Output Interface Buttons	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Wireless Search Utility, VLAN, MXview, MXconfig HTTPS/SSL, RADIUS, SSH SNTP Client ICMP, MAC address, IP protocol, Port-based RS-232, 8-pin RJ45 PWR, FAULT, STATE, SIGNAL, WLAN, LAN
Management Security Time Management Firewall Filter Serial Interface Console Port LED Interface LED Indicators Input/Output Interface Buttons Physical Characteristics	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Wireless Search Utility, VLAN, MXview, MXconfig HTTPS/SSL, RADIUS, SSH SNTP Client ICMP, MAC address, IP protocol, Port-based RS-232, 8-pin RJ45 PWR, FAULT, STATE, SIGNAL, WLAN, LAN Reset button
Management Security Time Management Firewall Filter Serial Interface Console Port LED Interface LED Indicators Input/Output Interface Buttons Physical Characteristics Housing	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Wireless Search Utility, VLAN, MXview, MXconfig HTTPS/SSL, RADIUS, SSH SNTP Client ICMP, MAC address, IP protocol, Port-based RS-232, 8-pin RJ45 PWR, FAULT, STATE, SIGNAL, WLAN, LAN Reset button Metal
Management Security Time Management Firewall Filter Serial Interface Console Port LED Interface LED Indicators Input/Output Interface Buttons Physical Characteristics Housing IP Rating	DHCP Server/Client, DNS, HTTP, IPv4, LLDP, Proxy ARP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Wireless Search Utility, VLAN, MXview, MXconfig HTTPS/SSL, RADIUS, SSH SNTP Client ICMP, MAC address, IP protocol, Port-based RS-232, 8-pin RJ45 PWR, FAULT, STATE, SIGNAL, WLAN, LAN Reset button Metal IP30



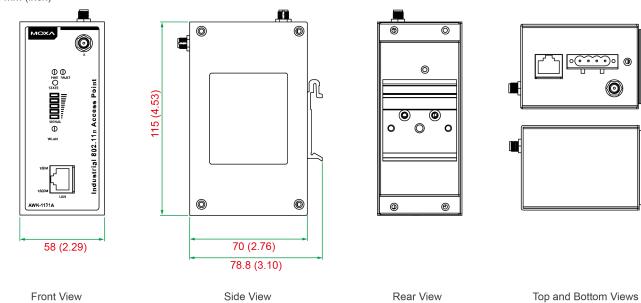
Power Parameters

Power Parameters	
Input Current	0.56 A @ 12 VDC, 0.14 A @ 48 VDC
Input Voltage	12 to 48 VDC
Power Connector	1 removable 4-contact terminal block(s)
Power Consumption	6.96 W (max.)
Reverse Polarity Protection	Supported
Environmental Limits	
Operating Temperature	Standard Models: 0 to 60°C (32 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 55032/24
EMI	CISPR 32, FCC Part 15B Class B
EMS	IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 3 V IEC 61000-4-8 PFMF
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	749,476 hrs
Standards	Telcordia SR332
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x AWK-1131 Series wireless AP/client
Installation Kit	1 x cap, plastic, for RJ45 port 1 x DIN-rail kit
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-1131A-EU	EU	802.11a/b/g/n	0 to 60°C
AWK-1131A-EU-T	EU	802.11a/b/g/n	-40 to 75°C
AWK-1131A-JP	JP	802.11a/b/g/n	0 to 60°C
AWK-1131A-JP-T	JP	802.11a/b/g/n	-40 to 75°C
AWK-1131A-US	US	802.11a/b/g/n	0 to 60°C
AWK-1131A-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
Wireless Antenna Cable	
CRF-N0117SA-3M	N-type (male) to RP SMA (male), CFD200 cable, 3 m
Wall-Mounting Kits	

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WK-51-01

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

