AWK-1137C Series

Industrial 802.11a/b/g/n wireless client



Features and Benefits

- IEEE 802.11a/b/g/n compliant client
- · Comprehensive interfaces with one serial port and two Ethernet LAN ports
- Millisecond-level Client-based Turbo Roaming¹
- 2x2 MIMO future-proof technology
- · Integrated robust antenna and power isolation
- Anti-vibration design
- · Compact size for your industrial applications
- · Easy setup and deployment with AeroMag

Certifications



Introduction

The AWK-1137C is an ideal client solution for industrial wireless mobile applications. It enables WLAN connections for both Ethernet and serial devices, and is compliant with industrial standards and approvals covering operating temperature, power input voltage, surge, ESD, and vibration. The AWK-1137C 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.

Industrial Ruggedness

- Integrated antenna and power isolation designed to provide 500 V insulation protection against external electrical interference
- -40 to 75°C wide operating temperature models (-T) available for smooth wireless communication in harsh environments

Mobility-Oriented Design

- Client-based Turbo Roaming¹ for < 150 ms roaming recovery time between APs
- · MIMO technology to ensure transmitting and receiving capability while on the move
- Anti-vibration performance (with reference to IEC 60068-2-6)

Easy Integration

- · Semi-automatically configurable to reduce deployment cost
- · AeroMag support for error-free setup of your industrial applications' basic WLAN settings
- Various communication interfaces for connecting to different types of devices
- One-to-many NAT to simplify your machine setup

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) ²

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.

^{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.



5.500 to 5.700 GHz (11 channels) 5.745 to 5.825 GHz (5 channels)Frequency Band for EU (20 MHz operating channels) 5.180 to 5.240 GHz (4 channels) 5.260 to 5.320 GHz (11 channels)Wireless SecurityWEP encryption (64-bit and 128-bit) WPAWPA2-PersonalTransmission Rate802.111. fo 11 Mbps 802.111. fo 5 GH 20 S02.111 fo 5 GHz (5 GHZ HDS) 231.5 GBm @ AC S0/3 40 MHz 181.15 GHZ (231.5 GBm @ MCS3/715 20 MHz 231.5 GBm @ MCS3/74 40 MHzTransmitter Power for 802.11n (5 GHz)261.5 GBm @ 1 Mbps 251.5 GBm @ 5.5 Mbps 251.5 GBm @ 6.5 Mbps 25	Frequency Band for JP (20 MHz operating channels)	5.745 to 5.825 GHz (5 ch 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 2.412 to 2.484 GHz (14 c	annels) hannels) annels) annels) ³ hannels) ³		
5.180 to 5.240 GHz (4 channels) 5.500 to 5.700 GHz (11 channels) 5.500 to 5.700 GHz (11 channels) 5.500 to 5.700 GHz (11 channels) 5.180 to 5.240 GHz (4 channels) 5.500 to 5.700 GHz (11 channels)Wireless SecurityWEP encryption (64-bit and 128-bit) WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES) WPA/WPA2-PersonalTransmission Rate802.11b: 1 to 11 Mbps 802.11b: 1 to 5.5 to 500 Mbps 802.11n: 6.5 to 54 Mbps 802.11n: 6.5 to 54 Mbps 18±1.5 dBm @ 6 to 24 Mbps 18±1.5 dBm @ MCS07/15 20 MHz 18±1.5 dBm @ MCS07/15 40 MHz 18±1.5 dBm @ MCS07/15 40 MHz 18±1.5 dBm @ 11 Mbps 25±1.5 dBm @ 15 Mbps 25±1.5 dBm @ 15 Mbps 25±1.5 dBm @ 11 Mbps 	Frequency Band for JP (20 MHz operating channels)	5.180 to 5.240 GHz (4 ch 5.260 to 5.320 GHz (4 ch 5.500 to 5.700 GHz (11 c 2.412 to 2.484 GHz (14 c	annels) annels) ³ hannels) ³		
5.180 to 5.240 GHz (4 channels) 5.260 to 5.320 GHz (4 channels) 5.500 to 5.700 GHz (11 channels) 5.500 to 5.700 GHz (11 channels)Wireless SecurityWEP encryption (64-bit and 128-bit) WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES) WPA/WPA2-PersonalTransmission Rate802.11b: 1 to 11 Mbps 802.11a/g: 6 to 54 Mbps 802.11a/g: 6 to 54 Mbps 802.11n: 6.5 to 300 MbpsTransmitter Power for 802.11a23±1.5 dBm @ 6 to 24 Mbps 21±1.5 dBm @ 36 Mbps 18±1.5 dBm @ MCS0/8 20 MHz 18±1.5 dBm @ MCS0/8 20 MHz 18±1.5 dBm @ MCS0/15 20 MHz 23±1.5 dBm @ MCS0/15 20 MHz 23±1.5 dBm @ 10 MbpsTransmitter Power for 802.11b26±1.5 dBm @ 1 Mbps 26±1.5 dBm @ 1 Mbps 		-	honnolo)		
WPA/WPA2-Enterprise (IEEE 802.1X/RADIUS, TKIP, AES) WPA/WPA2-PersonalTransmission Rate802.11b: 1 to 11 Mbps 802.11a/g: 6 to 54 Mbps 802.11n: 6.5 to 300 MbpsTransmitter Power for 802.11a23±1.5 dBm @ 6 to 24 Mbps 20±1.5 dBm @ 36 Mbps 21±1.5 dBm @ 48 Mbps 18±1.5 dBm @ MCS0/8 20 MHz 18±1.5 dBm @ MCS0/8 40 MHz 23±1.5 dBm @ MCS0/8 40 MHzTransmitter Power for 802.11b26±1.5 dBm @ 1 Mbps 26±1.5 dBm @ 1 Mbps 26±1.5 dBm @ 1 Mbps 26±1.5 dBm @ 6 to 24 Mbps 22±1.5 dBm @ 11 MbpsTransmitter Power for 802.11g23±1.5 dBm @ 6 to 24 Mbps 22±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 48 Mbps 19±1.5 dBm @ 54 MbpsTransmitter Power for 802.11n (2.4 GHz)23±1.5 dBm @ MCS0/8 20 MHz		5.260 to 5.320 GHz (4 ch	annels) annels) ³		
802.11a/g: 6 to 54 Mbps 802.11n: 6.5 to 300 MbpsTransmitter Power for 802.11a23±1.5 dBm @ 6 to 24 Mbps 21±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 48 Mbps 	Wireless Security	WPA/WPA2-Enterprise (TKIP, AES)	
21±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 48 Mbps 18±1.5 dBm @ 54 MbpsTransmitter Power for 802.11n (5 GHz)23±1.5 dBm @ MCS0/8 20 MHz 18±1.5 dBm @ MCS7/15 20 MHz 23±1.5 dBm @ MCS7/15 20 MHz 18±1.5 dBm @ MCS7/15 40 MHzTransmitter Power for 802.11b26±1.5 dBm @ 1 Mbps 26±1.5 dBm @ 1 Mbps 26±1.5 dBm @ 5.5 Mbps 25±1.5 dBm @ 5.5 Mbps 25±1.5 dBm @ 6 to 24 Mbps 20±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 54 MbpsTransmitter Power for 802.11g23±1.5 dBm @ 6 to 24 Mbps 20±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 54 Mbps 20±1.5 dBm @ 54 MbpsTransmitter Power for 802.11n (2.4 GHz)23±1.5 dBm @ MCS0/8 20 MHz	Transmission Rate	802.11a/g: 6 to 54 Mbps			
18±1.5 dBm @ MCS7/15 20 MHz 23±1.5 dBm @ MCS0/8 40 MHzTransmitter Power for 802.11b26±1.5 dBm @ 1 Mbps 26±1.5 dBm @ 2 Mbps 26±1.5 dBm @ 5.5 Mbps 25±1.5 dBm @ 11 MbpsTransmitter Power for 802.11g23±1.5 dBm @ 6 to 24 Mbps 22±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 48 Mbps 19±1.5 dBm @ 48 Mbps 19±1.5 dBm @ 54 MbpsTransmitter Power for 802.11n (2.4 GHz)23±1.5 dBm @ MCS0/8 20 MHz	Transmitter Power for 802.11a	21±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 48 Mbps	bps		
26±1.5 dBm @ 2 Mbps 26±1.5 dBm @ 5.5 Mbps 25±1.5 dBm @ 11 MbpsTransmitter Power for 802.11g23±1.5 dBm @ 6 to 24 Mbps 22±1.5 dBm @ 36 Mbps 	Transmitter Power for 802.11n (5 GHz)	18±1.5 dBm @ MCS7/15 23±1.5 dBm @ MCS0/8 4	20 MHz 10 MHz		
22±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 48 Mbps 19±1.5 dBm @ 54 Mbps Transmitter Power for 802.11n (2.4 GHz) 23±1.5 dBm @ MCS0/8 20 MHz	Transmitter Power for 802.11b	26±1.5 dBm @ 2 Mbps 26±1.5 dBm @ 5.5 Mbps			
	Transmitter Power for 802.11g	22±1.5 dBm @ 36 Mbps 20±1.5 dBm @ 48 Mbps	bps		
17±1.5 dBm @ MCS7/15 20 MHz 23±1.5 dBm @ MCS0/8 40 MHz 17±1.5 dBm @ MCS7/15 40 MHz	Transmitter Power for 802.11n (2.4 GHz)	17±1.5 dBm @ MCS7/15 23±1.5 dBm @ MCS0/8 4	20 MHz 10 MHz		
Transmitter Power US EU JP	Transmitter Power		US	FU	JP
2.4 GHz 26 dBm 18 dBm 18 dBm		2.4 GHz			
5 GHz (UNII-1) 23 dBm 23 dBm 23 dBm		5 GHz (UNII-1)	23 dBm	23 dBm	23 dBm
5 GHz (UNII-2) 23 dBm 23 dBm 23 dBm		5 GHz (UNII-2)	23 dBm	23 dBm	23 dBm
5 GHz (UNII-2e) 23 dBm 23 dBm 23 dBm		5 GHz (UNII-2e)	23 dBm	23 dBm	23 dBm
5 GHz (UNII-3) 23 dBm – –		5 GHz (UNII-3)	23 dBm	_	-
Note: Based on regional regulations, the maximum transmission power allowed or the UNII bands is restricted in the firmware, as indicated above.					ower allowed on
Receiver Sensitivity for 802.11a (measured at 5.680 GHz) Typ88 @ 9 Mbps Typ87 @ 12 Mbps Typ85 @ 18 Mbps Typ81 @ 24 Mbps Typ78 @ 36 Mbps Typ74 @ 48 Mbps		Typ88 @ 9 Mbps Typ87 @ 12 Mbps Typ85 @ 18 Mbps Typ81 @ 24 Mbps Typ78 @ 36 Mbps			

3. 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.



	Typ73 @ 54 Mbps Note ⁴
Receiver Sensitivity for 802.11n (5 GHz; measured at 5.680 GHz)	Typ69 dBm @ MCS7 20 MHz Typ70 dBm @ MCS15 20 MHz Typ64 dBm @ MCS7 40 MHz Typ66 dBm @ MCS15 40 MHz Note ⁴
Receiver Sensitivity for 802.11b (measured at 2.437 GHz)	Typ89 dBm @ 1 Mbps Typ89 dBm @ 2 Mbps Typ89 dBm @ 5.5 Mbps Typ88 dBm @ 11 Mbps
Receiver Sensitivity for 802.11g (measured at 2.437 GHz)	Typ88 dBm @ 6 Mbps Typ88 dBm @ 9 Mbps Typ88 dBm @ 12 Mbps Typ87 dBm @ 18 Mbps Typ87 dBm @ 24 Mbps Typ81 dBm @ 36 Mbps Typ77 dBm @ 48 Mbps Typ75 dBm @ 54 Mbps
Receiver Sensitivity for 802.11n (2.4 GHz; measured at 2.437 GHz)	Typ70 dBm @ MCS7 20 MHz Typ70 dBm @ MCS15 20 MHz Typ64 dBm @ MCS7 40 MHz Typ65 dBm @ MCS15 40 MHz
WLAN Operation Mode	Client, Client-Router, Slave, Sniffer
Antenna	External, 2/2 dBi, Omni-directional, QMA
Antenna Connectors	QMA
Ethernet Interface	
10/100BaseT(X) Ports (RJ45 connector)	2
Standards	IEEE 802.1Q for VLAN Tagging IEEE 802.3 for 10BaseT IEEE 802.3u for 100BaseT(X)
Ethernet Software Features	
Management	DHCP Server/Client, HTTP, IPv4, LLDP, SMTP, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, UDP, Proxy ARP, Wireless Search Utility, VLAN, MXview, MXconfig
Security	HTTPS/SSL, RADIUS, SSH
Time Management	NTP Client, SNTP Client
Firewall	
Filter	ICMP, MAC address, IP protocol, Port-based
Serial Interface	
Connector	DB9 male
Serial Standards	RS-232, RS-422/485, RS-232/422/485
Operation Modes	Disabled, Real COM, RFC2217, TCP Client, TCP Server, UDP
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Parity	None, Even, Odd, Space, Mark

^{4.} Due to a limitation in the receiver sensitivity performance for channels 153 and 161, it is recommended to avoid using these channels in your critical applications.



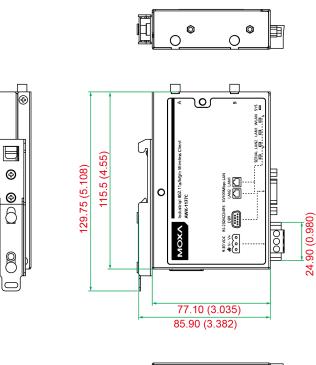
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Serial Data LogS68 BSerial SignalsR5-232Tx0, Rx0, RTS, CTS, DC0, OND, DTR, DSRR5-432Tx0, Rx0, RTS, CTS, DC0, OND, DTR, DSRR5-422Tx0, Tx-, Rx-, Rx-, GNDR5-455-20Data-, OADR5-455-20Data-, OADR5-455-20Data-, OADR5-455-20Data-, OADR5-455-20Data-, OADR5-455-20Data-, OADR5-455-20Data-, OADR5-455-20Data-, OADR5-455-20Data-, OADR5-455-20Store, RAN, SerialLD IndrafonTx-, Tx-, Rx-, Rx-, GNDLD IndrafonSto, LN1, LN2, VLAN, SerialLD IndrafonSto, LN1, LN2, VLAN, SerialLD IndrafonSto, LN1, LN2, VLAN, SerialLD IndrafonRescuttorsIndrafonRescuttorsHousingMediaPhysical CharacteristicsTr: 15. X28 mm (3.055 x4.55 x1.024 in)PostTr: 115. X28 mm (3.055 x4.55 x1.024 in)NeightA109 (1.03 lb)InstallationDit-rail mounting (with optional kit)Power ParametersTr: 115. X28 mm (3.055 x4.55 x1.024 in)Power ConnectorIn renovable 3-contact terminal block(s)Power ConnectorIn renovable 3-contact terminal block(s)Power Consamption1.7 W(max)Power ConsamptionStopatod To 5°C (1.25 lb 1477)Norder Emperature (package included)4.05 (-(1.01 165°T)Power ConsamptionStopatod To 5°C (1.25 lb 1477)Storage Temperature (package included)Alos 6°C (-(1.01 165°T)<	Flow Control	None, RTS/CTS, XON/XOFF
Serial SignalsRs-323TAD, RAD, RTS, CTS, DCD, GND, DTR, DSRRS-422TA, Tx, Tx+, Rx-, GNDRS-482-WDeter, Data, GNDRS-485-WTar, Tx-, Rx+, Rx-, GNDLED InderatorTotal ControlLED InderatorSS, LANT, LAN2, WLAN, SerialLED InderatorSS, LANT, LAN2, WLAN, SerialInput/Output InterfaceBest untinHousingBest untinPhysical ChraracteristicsForPhysical ChraracteristicsTotal SS, SA, S	Baudrate	75 bps to 921.6 kbps
R5-232 TxD, RxD, RTS, CTS, DCD, GND, DTR, DSR R5-422 Tx+, Tx+, Rx+, Rx+, GND R5-485-2w Data+, Data+, GND R5-485-4w Tx+, Tx+, Rx+, Rx+, GND R5-485-4w Tx+, Tx+, Rx+, Rx+, GND LED Interface SYS, LAN1, LAN2, WLAN, Serial LED Indicators SYS, LAN1, LAN2, WLAN, Serial Input/Output Interface Bet button Physical Characteristics Meal Physical Characteristics 77.1 x115.5 x26 mm (3.035 x 4.55 x 1.024 in) Pating P30 Dimensions 77.1 x115.5 x26 mm (3.035 x 4.55 x 1.024 in) Neight Tx0 g (1.03 lb) Installation No Ya0 (1.03 lb) Installation No Ya0 (1.03 lb) Power Parameters Turnovating, Wail mounting (with optional kit) Power Consoumption 10.1 X/ (max.) Reverse Polarity Protection Supported Power Consoumption 400 405 C/ (40 t 1867°) Arbiber Robards and Certifications Supported Everse Polarity Protection Supported Standards and Certifications Supported Everse Polarity Protection Standards: 0 to 975° (-40 to 187°) Arbiber Robards and Certifications Supported Everse Polarity Protection Standards: 0 to 975° (-40 to 187°) <t< td=""><td>Serial Data Log</td><td>256 КВ</td></t<>	Serial Data Log	256 КВ
R8-422 Txx, Txx, Rxx, RxQ R8-485-2w Datax, Data, GND R8-485-3w Txx, Txx, Rxx, GND R8-485-4w Txx, Txx, Rxx, GND LED Interface Sty, LXN1, LXN2, WLAN, Serial LED Interface Beet button Input/Output Interface Reset button Physical Characteristics Reset button Physical Characteristics Reset button Physical Characteristics TX, 115, 5x 26 mm (3.035 x 4.55 x 1.024 in) Pating P30 Dimensions TX, 115, 5x 26 mm (3.035 x 4.55 x 1.024 in) Neight Afog (1.03 b) Installation DM-rail mounting, Wall mounting (with optional kit) Power Parameters Internovable 3-contact terminal block(s) Power Consumption 1,70 (max.) Reverse Polarity Protection Stoppeted Storage Temperature (package included) outported Storage Temperature (package included) e0 105°C (40 to 165°T) Storage Temperature (package included) 60 105°C (40 to 165°T) Storage Temperature (package included) Fol 050°C (32 to 140°T) Storage Temperature (package included) e0 105°C (40 to 165°T) Storage Temperature (package included) fol 05°C (40 to 165°T) Storage Temperature (package included) fol 050°C (32 to 140°T) <td>Serial Signals</td> <td></td>	Serial Signals	
Rs-485-w Data-, GND Rs-485-4w Data-, GND Rs-485-4w Tx+, Tx+, Rx+, GND LED Indicators SYS, LAN1, LAN2, WLAN, Sorial LED Indicators SYS, LAN1, LAN2, WLAN, Sorial Input/Output Interface Reset button Physical Characteristics Reset button Physical Characteristics Product State	RS-232	TxD, RxD, RTS, CTS, DCD, GND, DTR, DSR
Rs-48-4w Tx, Tx, Tx, Rx, Rx, QND LED Indications Vis LXN1, LAN2, WLAN, Sorial LED Indicators SYS, LXN1, LAN2, WLAN, Sorial Input/Output Interface Beate button Physical Characteristics Reate button Physical Characteristics 1930 Infancions 7.11x 115.5 x 20 mm (3.035 x 4.55 x 1.024 in) Pionensions 7.11x 115.5 x 20 mm (3.035 x 4.55 x 1.024 in) Pionensions 7.11x 115.5 x 20 mm (3.035 x 4.55 x 1.024 in) Pionensions 7.11x 115.5 x 20 mm (3.035 x 4.55 x 1.024 in) Pionensions 7.11x 115.5 x 20 mm (3.035 x 4.55 x 1.024 in) Pionensions 7.11x 115.5 x 20 mm (3.035 x 4.55 x 1.024 in) Pionensions 9.03 VDC Power Connector 1 removable-S-contact terminal block(s) Power Connector <td< td=""><td>RS-422</td><td>Tx+, Tx-, Rx+, Rx-, GND</td></td<>	RS-422	Tx+, Tx-, Rx+, Rx-, GND
LED Indicators SYS, LAYI, LAN2, WLAN, Serial Ipput/Output Interface Resolution Physical Characteristics Resolution Physical Characteristics P30 Ippet Parameters P30 Installation DN-rail mounting (with optional kit) Power Parameters P10 Ipput Voltage 9 to 30 VDC Power Concector 1 removable 3-contact terminal block(s) Power Source Consumption 11.7 W (max.) Portaring Temperature (package includeed) -40 to 85°C (40 to 185°F) Stondard Models: 0 to 60°C (32 to 140°F) Wide Temp. Models: 40 to 75°C (40 to 185°F) Stondard Models: 9 to 60°C (32 to 140°F) Wide Temp. Models: 40 to 75°C (40 to 185°F) Stondard Stond Certifications -40 to 85°C (40 to 185°F) Stondard Stond Certifications -40 to 85°C (40 to 185°F) Stondard Stond Certifications -50 Stondard Stondard Models: 9 to 60°C (32 to 140°F) Wide Temp. Models: 40 to 75°C (40 to 185°F) Stondard Stond Certifications -50 Stondard Stondard Models: 9 to 60°C (32 to 140°F) Wide Temp. Models: 40 to 75°C (40 to 185°F) Stondard Stond Certifications -50 Stondard Stondard Stondard Stondard Models: 9 to 60°C (32 to 140°F) Wide Temp. Models: 40 to 75°C (40 to 185°F) Stondard Ston	RS-485-2w	Data+, Data-, GND
LED IndicatorsSYS, LANI, LAN2, WLAN, SerialInput/Output InterfaceButonsReset buttonPhysical CharacteristicsHousingMetalIP RatingP30Dimensions7.1 x 115.5 x 26 mm (3.035 x 4.55 x 1.024 in)Weight70 g (1.03 lb)InstallationOll -nail mounting, Wall mounting (with optional kit)Power Parameters1Invu Voltage9 lo 30 VDCPower Consumption1.17 W (max.)Reverse Polarity Protection20 suportedEnvironmental LimitsSuportedOperating Temperature (package included)40 to 88°C (-40 to 185°F)Ambient Relative Humidity6 to 95% (non-condensing)Storage Temperature (package included)16 Stor0.6-2/-6-4, EN 55032/24EMCloser 2, EC (-20 tri 150 ED/C (38 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 157°F)EMCloser 2, EC (-20 tri 150 ED/C (38 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 157°F)Storage Temperature (package included)-40 to 85°C (-40 to 185°F)EMCloser 2, EC (-20 tri 150 El as AEMCloser 2, EC (-20 tri 150 El as AEMCloser 2, EC (-20 tri 150 El as AEMEC (61000-4-2 RE): Contact: 8 W, Air, 15 W, EC (61000-4-2 RE): Vm EC (61000-4-2 RE): Vm 	RS-485-4w	Tx+, Tx-, Rx+, Rx-, GND
Input/Output Interface Reset button Buttons Reset button Physical Characteristics Motal Iverage Motal IP Rating Motal Dimensions 7.1 x 115.5 x 26 mm (3.035 x 4.55 x 1.024 in) Weight 7.0 g (1.03 lb) Installation DIM-rail mounting, Wall mounting (with optional kit) Power Parameters Iverage Parameters Input Voltage 9 to 30 VDC Power Connector 1 removable 3-contact terminal block(s) Power Consumption 1.1 7.W (max.) Reverse Polarity Protection Supported Storage Temperature (package included) supported Storage Temperature (package included) 10 to 85°C (-40 to 185°F) Ambient Relative Humidity 6 to 95% (non-condensing) Storage Temperature (package included) 10 to 85°C (-40 to 185°F) EMG Stor0-2-2-6-4, EN 55032/24 EMG Stor0-2-2-6-4, EN 55032/24. EMG Stor0-2-2-6-4, EN 55032/24. EMG Stor0-2-2-6-4, EN 55032/24. EMG Stor0-2-2-6-4, EN 55032/24. EMG	LED Interface	
Butons Reset button Physical Characteristics Metal Housing Metal IP Rating IP 80 Dimensions 7.1 x 115.5 x 26 nm (3.035 x 4.55 x 1.024 in) Weight 7.0 g (1.03 lb) Installation Dim-rail mounting, Wall mounting (with optional kit) Power Parameters Interval mounting, Wall mounting (with optional kit) Power Connector 1 removable 3-contact terminal block(s) Power Consumption 1.1 removable 3-contact terminal block(s) Power Consumption 1.1 removable 3-contact terminal block(s) Power Consumption Supported Portering Temperature Supported Operating Temperature (package included) 40 to 85°C (-40 to 185°F) Antient Relative Humidity 50 59% (non-condensing) Standard Models: 0 to 60°C (32 to 140°F) Supported Standard Models: 0 to 60°C (32 to 140°F) Supported Reverse Polarity Protection Standard Models: 0 to 60°C (32 to 140°F) Standard Models: 0 to 60°C (32 to 140°F) Supported Standard Models: 0 to 60°C (32 to 140°F) Supported Standard Models: 0 to 60°C (32 to 140°F)	LED Indicators	SYS, LAN1, LAN2, WLAN, Serial
Physical Characteristics Housing Metal IP Rating IP30 Dimensions 7.1 x 115.5 x 26 mm (3.035 x 4.55 x 1.024 lm) Vieight 70 g (1.03 lb) Installation DIM-rail mounting, Wall mounting (with optional kit) Power Parameters Intervalue (3.035 x 4.55 x 1.024 lm) Input Voltage 010, rail mounting, Wall mounting (with optional kit) Power Parameters Intervalue (3.035 x 4.55 x 1.024 lm) Input Voltage 010, rail mounting, Wall mounting (with optional kit) Power Connector 1 removable 3-contact terminal block(s) Power Consumption 1.7 W (max.) Reverse Polarity Protection Stondard Models: 0 to 80°C (32 to 140°F) Vieid Temp. Models: 40 to 75°C (40 to 167°F) Wide Temp. Models: 40 to 75°C (40 to 167°F) Storage Temperature (package included) 40 to 85°C (42 to 140°F) Vieid Temp. Models: 40 to 75°C (40 to 167°F) Wide Temp. Models: 40 to 75°C (40 to 167°F) Storage Temperature (package included) 40 to 85°C (40 to 185°F) Arbient Relative Humidity 5 to 95% (non-condensing) Storage Temperature (package included) GISPR 22, FCC Part 158 Class A EM <td>Input/Output Interface</td> <td></td>	Input/Output Interface	
HousingMetalIP RatingIP30Dimensions77.1 x 115.5 x 26 mm (3.035 x 4.55 x 1.024 in)Weight470 g (1.03 lb)InstallationDIM-rail mounting, Wall mounting (with optional kit)Power ParametersInternational (With optional kit)Input Voltage9 to 30 VDCPower Connector1 removable 3-contact terminal block(s)Power Consumption1.7 W (max.)Reverse Polarity ProtectionupportedOperating Temperature (package included)40 to 85°C (42 to 140°F) Wide Temp. Models: -0 to 75°C (-40 to 167°F)Storage Temperature (package included)-0 to 85°C (-40 to 185°F)EMCNot 1000-6-2/-6-4. EN 55032/24EMICisPR 22, FCC Part 15B Class AEMSSictional-4 EFT: Power: 24 V; Signai: 1 KV EC 61000-4-3 ESS: 60 MHz to 1 GHZ: 10 V/m EC 61000-4-4 EFT: Power: 24 V; Signai: 1 KV EC 61000-4-5 ESD: Contact: 8 KV, AI:: 15 KV EC 61000-4-5 ESD: Contact: 8 KV, AI:	Buttons	Reset button
Pating IP30 Dimensions 71.1 x 115.5 x 26 mm (3.035 x 4.55 x 1.024 in) Vieight 470 g (1.03 lb) Installation DIM-rail mounting, Wall mounting (with optional kit) Power Parameters Installation Input Voltage 9 to 30 VDC Power Connector 1 removable 3-contact terminal block(s) Power Consumption 1.7.7 W (max.) Reverse Polarity Protection Supported Porger Temperature Supported Operating Temperature Andore Sic (16 dt to 185°F) Ambient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications EM EMS CSiPP 22, FCC Part 15B Class A EMS CSiPO0-42 ESD: Contact: 8 KV, Air: 15 KV, IIC 5 (1000-43 RS: 80 MHz; to 1 GHz; 10 VM; IIC 5 (1000-44 RS: 10 VM; IIC 5 (10	Physical Characteristics	
Dimensions 7.1 x 115.5 x 26 mm (3.035 x 4.55 x 1.024 in) Weight 470 g (1.03 lb) Installation DIN-rail mounting, Wall mounting (with optional kit) Power Parameters Installation Input Voltage 9 to 30 VDC Power Connector 1 removable 3-contact terminal block(s) Power Consumption 1.7 W (max.) Reverse Polarity Protection Supported Porrating Temperature Standard Models: 0 to 60°C (32 to 140°F) Wride Temp. Models: -40 to 75°C (-40 to 167°F) Wride Temp. Models: -40 to 75°C (-40 to 167°F) Storage Temperature (package included) -40 to 85°C (140 to 185°F) Anbient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications EME EMG CISPR 22, FCC Part 15B Class A EMS LisC 61000-42 ESD: Contact: 8 W; Air: 15 W EC 61000-42 SB: 80 MHz to 1 GHz: 10 W; Signai: 1 W; EC 61000-42 SB: 80 Shrg: 90 wer: 2 W; Signai: 1 W; EC 61000-42 FF. EC 61000-42 FF. Server: 2 W; Signai: 1 W; EC 61000-42 FF. EC 61000-42 FF. Server: 2 W; Signai: 1 W; EC 61000-42 FF.	Housing	Metal
Note of the second se	IP Rating	IP30
Installation DIN-rail mounting, Wall mounting (with optional kit) Power Parameters 9 to 30 VDC Input Voltage 9 to 30 VDC Power Connector 1 removable 3-contact terminal block(s) Power Consumption 11.7 W (max.) Reverse Polarity Protection Supported Environmental Limits	Dimensions	77.1 x 115.5 x 26 mm (3.035 x 4.55 x 1.024 in)
Power Parameters Input Voltage 9 to 30 VDC Power Connector 1 removable 3-contact terminal block(s) Power Consumption 11.7 W (max.) Reverse Polarity Protection Supported Environmental Limits 5 tandard Models: 0 to 60°C (32 to 140°F) Operating Temperature Standard Models: 0 to 60°C (32 to 140°F) Storage Temperature (package included) -40 to 85°C (-40 to 185°F) Ambient Relative Humidity 5 to 95% (non-condensing) Standards and Certifications E EMC EN 61000-6-2/-6-4, EN 55032/24 EMS EC 61000-4-2 ESD contact: 8 kV, 3kr: 15 kV IEC 61000-4-3 ESH: 80 MVZ is 15 kV IEC 61000-4-3 SH: 80 MVZ is 15 kV IEC 61000-4-3 SH: 80 MVZ is 15 kV IEC 61000-4-3 SH: 80 MVZ is 15 kV IEC 61000-4-4 SH: 10 V/m IEC 61000-4-4 SH: 10 V/m IEC 61000-4-4 SH: 10 V/m IEC 61000-4-4 SH: 10 V/m IEC 61000-4-4 SH: 10 V/m Ratio IDA, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-1137C, MIC, NCC, SRRC,	Weight	470 g (1.03 lb)
Input Voltage9 to 30 VDCPower Connector1 removable 3-contact terminal block(s)Power Consumption11.7 W (max.)Reverse Polarity ProtectionSuportedEnvironmental LimitsStandard Models: 0 to 60°C (32 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)Operating Temperature (package included)-40 to 85°C (-40 to 185°F)Ambient Relative Humidity5 to 95% (non-condensing)Standards and CertificationsEMCIn Stonge 2, FCC Part 15B Class AEMICiSPR 22, FCC Part 15B Class AEMSEC 61000-42 ESD: Contact: 8 kY; Air: 15 kV EC 61000-43 RS: 80 MHz to 1 GHz: 10 V/m EC 61000-43 CS: 90 MHz to 1 GHz: 10 V/m EC 61000-44 EFT: Power: 2 kV; Signal: 1 kV EC 61000-45 ES : 00 V kY EC 61000-46 ES : 10 V kY 	Installation	DIN-rail mounting, Wall mounting (with optional kit)
Power Connector1 removable 3-contact terminal block(s)Power Consumption11.7 W (max.)Reverse Polarity ProtectionSupportedEnvironmental Limits	Power Parameters	
Power Consumption11.7 W (max.)Reverse Polarity ProtectionSupportedEnvironmental LimitsOperating TemperatureStandard 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 Humidity5 to 95% (non-condensing)Standards and CertificationsEMCEN 61000-6-2/-6-4, EN 55032/24EMICISPR 22, FCC Part 15B Class AEMSIEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 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 61000-4-4 EFT. Power: 2 kV; Signal: 1 kV IEC 61000-4-5 CS: 1	Input Voltage	9 to 30 VDC
Reverse Polarity ProtectionSupportedEnvironmental LimitsStandard Models: 0 to 60°C (32 to 140°F) Wide Temp. Models: -40 to 75°C (-40 to 167°F)Operating Temperature (package included)-40 to 85°C (-40 to 185°F)Ambient Relative Humidity5 to 95% (non-condensing)Standards and CertificationsENEMCEN 61000-6-2/-6-4, EN 55032/24EMICISPR 22, FCC Part 15B Class AEMSEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 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 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-8 SPMFRadioIDA, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-1137C, MIC, NCC, SRRC,	Power Connector	1 removable 3-contact terminal block(s)
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 61000-6-2/-6-4, EN 55032/24 EMI CISPR 22, FCC Part 15B Class A EMS LEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV LEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m LEC 61000-4-3 Surge: Power: 2 kV; Signal: 1 kV LEC 61000-4-6 SURG: POWEr: 2 kV; Signal: 1 kV LEC 61000-4-6 SURG: POWEr: 2 kV; Signal: 1 kV LEC 61000-4-8 PFMF Radio IDA, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-1137C, MIC, NCC, SRRC,	Power Consumption	11.7 W (max.)
Operating TemperatureStandard 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 Humidity5 to 95% (non-condensing)Standards and CertificationsEMCEMCEN 61000-6-2/-6-4, EN 55032/24EMICISPR 22, FCC Part 15B Class AEMSIEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 kV IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMFRadioIDA, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-1137C, MIC, NCC, SRRC,	Reverse Polarity Protection	Supported
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 Humidity5 to 95% (non-condensing)Standards and CertificationsEN 61000-6-2/-6-4, EN 55032/24EMCEN 61000-6-2/-6-4, EN 55032/24EMICISPR 22, FCC Part 15B Class AEMSIEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 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 61000-4-6 CS: 10 V 	Environmental Limits	
Ambient Relative Humidity5 to 95% (non-condensing)Standards and CertificationsEMCEN 61000-6-2/-6-4, EN 55032/24EMICISPR 22, FCC Part 15B Class AEMSIEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 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 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV IEC 61000-4-8 PFMFRadioIDA, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-1137C, MIC, NCC, SRRC,	Operating Temperature	
Standards and CertificationsEMCEN 61000-6-2/-6-4, EN 55032/24EMICISPR 22, FCC Part 15B Class AEMSIEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 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: 10 V IEC 61000-4-8 PFMFRadioIDA, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-1137C, MIC, NCC, SRRC,	Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
EMCEN 61000-6-2/-6-4, EN 55032/24EMICISPR 22, FCC Part 15B Class AEMSIEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 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: 10 V IEC 61000-4-8 PFMFRadioIDA, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-1137C, MIC, NCC, SRRC,	Ambient Relative Humidity	5 to 95% (non-condensing)
EMICISPR 22, FCC Part 15B Class AEMSIEC 61000-4-2 ESD: Contact: 8 kV; Air: 15 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: 10 V IEC 61000-4-8 PFMFRadioIDA, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-1137C, MIC, NCC, SRRC,	Standards and Certifications	
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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: 10 V IEC 61000-4-8 PFMF Radio IDA, EN 300 328, EN 301 489-1/17, EN 301 893, FCC ID SLE-1137C, MIC, NCC, SRRC,	EMI	CISPR 22, FCC Part 15B Class A
	EMS	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: 10 V
	Radio	



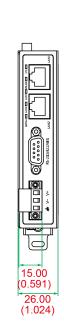
Road Vehicles	E mark E1
Safety	EN 60950-1, UL 60950-1
Vibration	IEC 60068-2-6
MTBF	
Time	1,125,942 hrs
Standards	Telcordia SR332
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty
Package Contents	
Device	1 x AWK-1137C Series wireless client
Antenna	2 x 2.4/5 GHz antenna
Installation Kit	1 x DIN-rail kit
Documentation	1 x quick installation guide 1 x warranty card

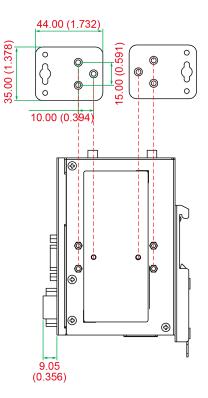
Dimensions

Unit: mm (inch)



	Maintenarke Port	
-		9







Ordering Information

Model Name	Band	Standards	Operating Temp.
AWK-1137C-EU	EU	802.11a/b/g/n	0 to 60°C
AWK-1137C-EU-T	EU	802.11a/b/g/n	-40 to 75°C
AWK-1137C-JP	JP	802.11a/b/g/n	0 to 60°C
AWK-1137C-JP-T	JP	802.11a/b/g/n	-40 to 75°C
AWK-1137C-US	US	802.11a/b/g/n	0 to 60°C
AWK-1137C-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	2.4/5 GHz, dual-band omni-directional antenna, 4/7 dBi, N-type (male)
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, 2/2 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
Wall-Mounting Kits	
WK-35-01	Wall-mounting kit, 2 plates, 6 screws, 35 x 44 x 2.5 mm
Wireless Antenna Cables	
A-CRF-RFRM-S2-60	SS402 cable, RP-SMA (male) to RP-SMA (female)
A-CRF-RFRM-R4-150	RF magnetic stand, RP-SMA (male) to RP-SMA (female), RG-174/U cable, 1.5 m
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
CRF-N0117SA-3M	N-type (male) to RP SMA (male), CFD200 cable, 3 m
Surge Arrestors	
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 Adapters

A-ADP-RJ458P-DB9F-ABC01	DB9 female to RJ45 connector for the ABC-01	
Wireless Terminating Resistors		
A-TRM-50-NM	Terminating Resistor, 50 ohm, RP-SMA Male	

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