# WAC-1001 Series

## Industrial wireless access controllers



#### **Features and Benefits**

- · Redundant 12 to 48 VDC power inputs
- Controller-based Turbo Roaming (less than 50 ms)
- · Supported models: AWK-RTG Series, TAP Series
- · IEEE 802.11i-compliant wireless security
- · DIN-rail mounting or wall mounting (optional) for on-site installation
- -40 to 75°C operating temperature range (-T model)

#### **Certifications**







### Introduction

The WAC-1001 wireless access controller provides a seamless roaming experience for Moxa's access points in distributed wireless networks. It uses Moxa's controller-based Turbo Roaming technology to achieve less than 50 ms roaming handover times on up to three channels. This advanced roaming capability securely hands off clients at speeds so high that wireless clients can enjoy seamless roaming between APs, with virtually no interruption in connectivity. WAC-1001 also supports 1-to-1 hot backup function to help make your network more reliable. Widetemperature models that can operate in -40 to 75°C are also available.

#### **Maximum Availability**

- Enables millisecond-level Turbo Roaming
- Configuration backup
- · Dual redundant DC power inputs

### **Advanced Security**

- IEEE802.1X/RADIUS supported
- WPA/WPA2/802.11i supported
- Integrated DI/DO for on-site monitoring and warnings

## **Specifications**

#### Input/Output Interface

Alarm Contact Channels	1 relay output with current carrying capacity of 1 A @ 24 VDC
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 802.3af for PoE IEEE 802.3u for 100BaseT(X)
Total Port Count	1
Highest Speed	1G
Connections	PoE



### Ethernet Software Features

Ethernet Software Features			
Management	IPv4, SNMPv1/v2c/v3, Syslog, TCP/IP, Telnet, TFTP, Web Console, Wireless Search Utility		
Security	HTTPS/SSL, RADIUS, SSH		
Time Management	NTP Client, SNTP		
Serial Interface			
Console Port	RS-232 (TxD, RxD, GND), 8-pin RJ45 (115200, n, 8, 1)		
Flow Control	RTS/CTS, XON/XOFF		
Parity	None, Even, Odd, Space, Mark		
Serial Signals			
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND		
Wireless Access Control			
Controller Failover Mode	1-on-1 hot backup		
Handover Time	50 ms		
WLAN Products Supported	110 radios		
Power Parameters			
Input Current	0.6 A @ 12 VDC, 0.15 A @ 48 VDC		
Input Voltage	12 to 48 VDC, Redundant dual inputs		
Source of Input Power	PoE (IEEE 802.3af)		
Physical Characteristics			
Housing	Metal		
IP Rating	IP30		
Dimensions (without ears)	52.85 x 135 x 105 mm (2.08 x 5.32 x 4.13 in)		
Weight	1,060 g (2.34 lb)		
Installation	DIN-rail mounting, Wall mounting (with optional kit)		
Environmental Limits			
Operating Temperature	Standard Models: -10 to 60°C (14 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 A		
EMS	IEC 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		

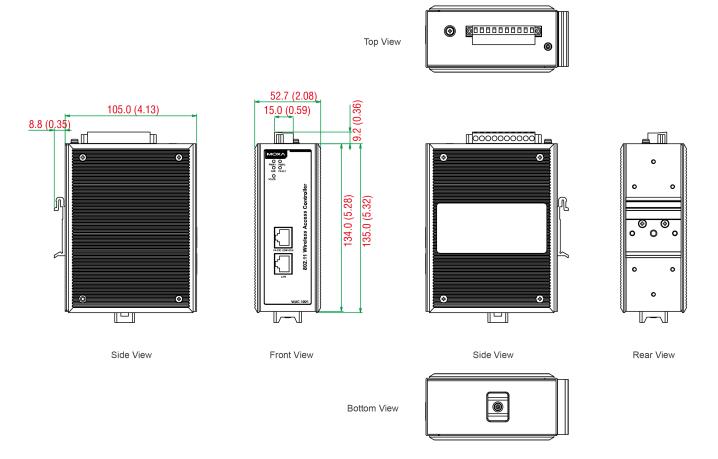


IEC 61000-4-8 PFMF

Railway	EN 50121-4, EN 50155		
Safety	EN 60950-1, IEC 60950-1, UL 60950-1		
Declaration			
Green Product	RoHS, CRoHS, WEEE		
MTBF			
Time	447,425 hrs		
Standards	Telcordia SR332		
Warranty			
Warranty Period	5 years		
Details	See www.moxa.com/warranty		
Package Contents			
Device	1 x WAC-1001 Series wireless access controller		
Installation Kit	1 x cable holder with screw 2 x cap, plastic, for RJ45 port		
Documentation	1 x quick installation guide 1 x warranty card		

# **Dimensions**

Unit: mm (inch)



# **Ordering Information**

Model Name	Application	Operating Temp.	Indoor/Outdoor, IP Code
WAC-1001	Wireless Access Controller	0 to 60°C	Indoor, IP30
WAC-1001-T	Wireless Access Controller	-40 to 75°C	Indoor, IP30

# **Accessories (sold separately)**

## **Mounting Kits**

WK-51-01 Wall mounting kit with 2 plates (51.6 x 67 x 2 mm) and 6 screws	
--	--

© Moxa Inc. All rights reserved. Updated Apr 17, 2019.

This document and any portion thereof may not be reproduced or used in any manner whatsoever without the express written permission of Moxa Inc. Product specifications subject to change without notice. Visit our website for the most up-to-date product information.

