WAC-2004 Series

Industrial wireless access controllers



- 2-in-1 AP controller and mobile IP home agent
- · Millisecond-level controller-based Turbo Roaming
- IEEE 802.11i-compliant wireless security
- · Layer-3 mobile IP technology
- Up to 450 Mbps throughput for tunneling
- · Scalable tunneling capacity









Introduction

The WAC-2004 wireless access controller provides a seamless roaming experience for Moxa's access points distributed wireless networks. It uses Moxa's controller-based Turbo Roaming technology to achieve millisecond-level roaming over different IP subnets. The combination of an advanced roaming algorithm and mobile IP technology allows wireless clients to roam between different IP subnets within milliseconds, while maintaining stringent security in extremely demanding environments. WAC-2004 also supports 1-to-1 hot backup to help make your network more reliable. The WAC-2004 is rated to operate at temperatures ranging from 0 to 50°C, and is rugged enough for installation in any harsh industrial environment.

Maximum Availability

· Device-level redundancy via hot standby controller

Minimum Handover Time

- · Millisecond-level Turbo Roaming
- Inter-controller roaming

Maximum Mobility in L3 Networks

- Mobile IP tunneling
- Care-of-Address (CoA) assignment
- · Cross layer 3 subnet roaming

Specifications

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)
Total Port Count	4
Highest Speed	1G



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 ports x 1 (DB9 male)		
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		
Roaming Support	Turbo Roaming (L2/L3) with inter-controller capabilities		
WLAN Products Supported	200 radios		
Power Parameters			
Input Current	1.2 A @ 100 VAC		
Input Voltage	100 to 240 VAC		
No. of Power Inputs	2		
Operating Voltage	100 to 240 VAC		
Physical Characteristics			
Housing	Metal		
IP Rating	IP30		
Dimensions (without ears)	440 x 44 x 325 mm (17.32 x 1.73 x 12.80 in)		
Weight	5,480 g (12.08 lb)		
Installation	19-inch rack mounting		
Environmental Limits			
Operating Temperature	0 to 50°C (32 to 122°F)		
Standards and Certifications			
EMC	EN 55032/24, EN 61000-6-2/-6-4		
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: 4 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF		
Safety	IEC 60950-1, UL 60950-1		

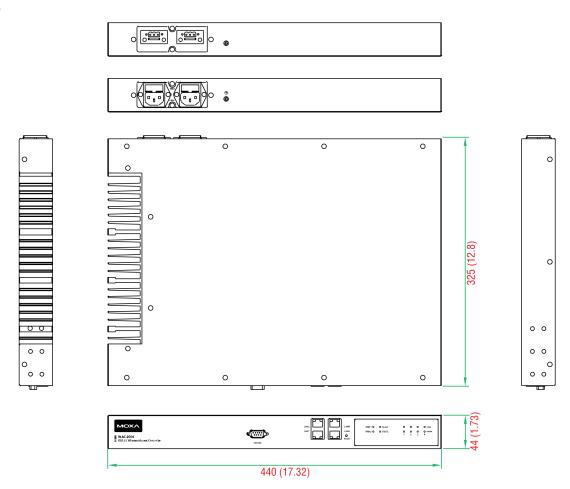


Declaration

Green Product	RoHS, CRoHS, WEEE		
MTBF			
Time	383,478 hrs		
Standards	Telcordia SR332		
Warranty			
Warranty Period	3 years		
Details	See www.moxa.com/warranty		
Package Contents			
Device	1 x WAC-2004 Series wireless access controller		
Installation Kit	4 x cap, plastic, for RJ45 port 2 x rack-mounting ear		
Cable	1 x DB9 female to RJ45 10-pin		
Power Supply	1 x power cord, C13-type, US or EU type		
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-2004	Wireless Access Controller	0 to 50°C	Indoor, IP30

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