

Alcatel-Lucent Enterprise 4000 Series Controller

Extend the all-wireless workplace to branch offices

Alcatel-Lucent Enterprise 4000 series controllers optimize cloud services and secure enterprise applications at branch offices while providing configuration, management, encryption, and application visibility to ensure network services are reliably delivered.

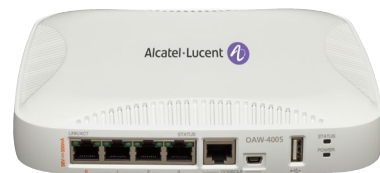
The Alcatel-Lucent Enterprise 4005, 4010 and 4030 Services Controllers support 16, 32 and 64 access points (APs), respectively. These controllers also unify policy management for wired and wireless networks, making it simple and cost-effective to create a unified workplace at branch offices. Wireline access for branch offices is provided by switches such as the Alcatel-Lucent OmniSwitch™ 6850E Stackable LAN Switch, the OmniSwitch 6450 Stackable LAN Switches and OmniSwitch 6250 Stackable Fast Ethernet Switches.

Capable of handling up to 4000 users, the 4000 series performs stateful firewall policy enforcement at up to 8 Gb/s. Secure IP tunnels protect branch traffic across the public and private transport network to the cloud and headquarters. Local bridging can be performed, depending on end-user applications or IT traffic forwarding requirements.

The 4000 series also supports the Alcatel-Lucent Next-Generation Mobility Firewall with AppRF™ technology, which continuously evaluates app usage and performance, and makes configuration changes in real time to ensure optimal bandwidth, priority and network paths in branch offices.

This ensures the best possible app experience in the branch, even for apps that are hidden as encrypted or web traffic. And it can obtain unprecedented insight into over 1500 apps, including cloud- and web-based apps like Microsoft® Lync™, Microsoft SharePoint™, Box, GoToMeeting™ and Salesforce.com™.

A real-time dashboard makes it easy to identify and correct quality-of-service tags, load-balance specific apps across APs, adjust RF management and roaming parameters for latency-sensitive apps, and apply bandwidth contracts per app or group of apps.



OAW 4005



OAW 4010



OAW 4030

Datasheet

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The 4000 series supports other enterprise-critical capabilities, such as authentication, encryption, VPN connections, IPv4 and IPv6 services, the Policy Enforcement Firewall™, Adaptive Radio Management™ and ClientMatch™ technologies, and RFProtect™ spectrum analysis and wireless intrusion protection.

Product summary

- 4005 Controller is a compact, fanless entry-level branch platform that can be powered by a power-over-Ethernet (PoE) switch.
- 4010 Controller is designed for mid-sized branch deployments that require several PoE and PoE+ switch ports.
- 4030 Controller is ideal for mid- to large-sized branch deployments that require unprecedented scale and performance.

Features

- AppRF technology, which continuously evaluates app usage and performance.
- ClientMatch dynamically optimizes Wi-Fi client performance as users roam and RF conditions change.
- Remote spectrum analysis to identify sources of RF interference.

Benefits

- Ensures the best possible app experience in the branch, for over 1500 apps
- Improved Wi-Fi quality and support high densities of mobile devices.
- Delivers best-in-class RF management

Performance and capacity

Features	4005	4010	4030
Maximum campus AP licenses	16	32	64
Maximum remote AP licenses	16	32	64
Maximum concurrent users/devices	1024	2048	4096
Maximum VLANs	4094	4094	4094
Active firewall sessions	16,384	32,768	65,536
Concurrent GRE tunnels	256	512	1024
Concurrent IPsec sessions	1024	2048	4096
Concurrent SSL fallback sessions	1024	2048	4096
Mobility Access Switch tunneled-node ports	512	1024	2048
Firewall throughput	2 Gb/s	4 Gb/s	8 Gb/s
Encrypted throughput (3DES, AES-CBC)	1.2 Gb/s	2.4 Gb/s	2.4 Gb/s
Encrypted throughput (AES-CCM)	2.2 Gb/s	3.6 Gb/s	4.4 Gb/s

Interfaces and indicators

Features	4005	4010	4030
Form factor/footprint	Compact	1 rack unit	1 rack unit
Auto-negotiating 10/100/1000BASE-T	4	16	8 (combo)
Gigabit Ethernet ports (GBIC or SFP)	N/A	2 SFP	8 (combo)
USB 2.0	Yes	Yes (2)	Yes
Management/status LEDs	Yes	Yes	Yes
LINK/ACT and status LEDs	No	No	Yes
LCD panel and navigation buttons	No	Yes	Yes
Console port	Yes (mini USB/RJ-45)	Yes (mini USB/RJ-45)	Yes (mini USB/RJ-45)
Out-of-band management port	No	Yes	Yes

Datasheet

Physical

	4005	4010	4030
Dimensions (H x W x D)	4.1 cm x 20 cm x 20 cm (1.6 in x 7.9 in x 7.9 in)	4.4 cm x 31.8 cm x 33.7 cm (1.7 in x 12.5 in x 13.3 in)	4.4 cm x 30.5 cm x 21.1 cm (1.7 in x 12 in x 8.3 in)
Weight	0.92 kg (2.03 lb)	3.4 kg (7.5 lb)	2.06 kg (4.54 lb)
MTBF (hours, @ 25°C)	323,896	232,843	TBD

Environmental range

	4005	4010	4030
Operating temperature	0° C to 40° C	0° C to 40° C	0° C to 40° C
Storage temperature	-40° C to 70° C	-40° C to 70° C	-40° C to 70° C
Humidity/storage humidity	5% to 95%, NC	5% to 95%, NC	5% to 95%, NC
Operating altitude	10,000 feet	10,000 feet	10,000 feet
Acoustic noise ¹	0 dBA (fanless)	39.8 - 58.6 dBA	29.1 - 57.4 dBA
Maximum power consumption	16.6 watts (with USB)	190 watts (with PoE)	55 watts

¹Sound power per ETSI 300 753 in accordance with ISO 7779

Regulatory and safety compliance

Description	Specification
Safety certifications	UL 60950-1 Second Edition CAN/CSA-C22.2 No. 60950-1 Second Edition EN 60950-1 Second Edition EN 60950:2005 IEC 60950-1 Second Edition NOM (obtained by partners and distributors)
Electromagnetic emissions certifications	FCC Part 15 Class B CE AS/NZS CISPR22 Class B CISPR22 Class B EN55022 Class B ICES-003 Class B VCCI Class B EN61000-3-2 EN61000-3-3 EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11, AS/NZS 3548 KN22 Class B KCC CNS13438 Class B EN55024/CISPR24 KN24 Industry Canada Class B CE mark, cTUVus, CB, C-tick, Anatel, NOM, MIC
Telco	Common Language Equipment Identifier (CLEI) Code
Regulatory SKU information	ARCN0104(4005), ARCN0103(4010), ARCN4030(4030)

Ordering information

Part number	Description
Controllers¹	
OAW-4005-RW	OmniAccess Wireless LAN 4005 controller, four 10/100/1000BASE-T ports, supports up to 16 APs and 1K clients, powered by PoE/PoE+ (optional DC power accessory available). This SKU is a rest-of-world product and should not be deployed in the United States and Japan.
OAW-4005-US	OmniAccess Wireless LAN 4005 controller, four 10/100/1000BASE-T ports, supports up to 16 APs and 1K clients, powered by PoE/PoE+ (optional DC power accessory available). This SKU is US only and should not be deployed in rest-of-world.
OAW-4005-JP	OmniAccess Wireless LAN 4005 controller, four 10/100/1000BASE-T ports, supports up to 16 APs and 1K clients, powered by PoE/PoE+ (optional DC power accessory available). This SKU is Japan only and should not be deployed in rest-of-world.
OAW-4010-RW	OmniAccess Wireless LAN 4010 controller, 12.10/100/1000BASE-T PoE/PoE+ (150W), 4.10/100/1000BASE-T, 2.1G BASE-X SFP ports, supports up to 32 APs and 2K clients. Integrated AC power supply. This SKU is a rest-of-world product and should not be deployed in the United States.
OAW-4010-US	OmniAccess Wireless LAN 4010 controller, 12.10/100/1000BASE-T PoE/PoE+ (150W), 4.10/100/1000BASE-T, 2.1G BASE-X SFP ports, supports up to 32 APs and 2K clients. Integrated AC power supply. This SKU is US only and should not be deployed in rest-of-world.
OAW-4010-JP	OmniAccess Wireless LAN 4010 controller, 12.10/100/1000BASE-T PoE/PoE+ (150W), 4.10/100/1000BASE-T, 2.1G BASE-X SFP ports, supports up to 32 APs and 2K clients. Integrated AC power supply. This SKU is Japan only and should not be deployed in rest-of-world.
OAW-4030-RW	OmniAccess Wireless LAN 4030 controller, 8.10/100/1000BASE-T or 8.1GBASE-X SFP dual personality ports, supports up to 64 APs and 4K clients. Integrated AC power supply. This SKU is a rest-of-world product and should not be deployed in the United States.
OAW-4030-US	OmniAccess Wireless LAN 4030 controller, 8.10/100/1000BASE-T or 8.1GBASE-X SFP dual personality ports, supports up to 64 APs and 4K clients. Integrated AC power supply. This SKU is US only and should not be deployed in rest-of-world.
OAW-4030-JP	OmniAccess Wireless LAN 4030 controller, 8.10/100/1000BASE-T or 8.1GBASE-X SFP dual personality ports, supports up to 64 APs and 4K clients. Integrated AC power supply. This SKU is Japan only and should not be deployed in rest-of-world.
Controller accessories	
OAW-APAC-12V12U	AP-AC-12V24UN 12V/24W indoor 4005 AC power adapter. Universal, ships with 8 country-specific plug inserts
OAW-4010-MNT-19	OmniAccess 4010 Controller Replacement 19" Equipment Rack Mounting Equipment
OAW-4030-MNT-19	OmniAccess 4010 Controller Replacement 19" Equipment Rack Mounting Equipment
OAW-SFP-LX	OmniAccess Wireless SFP - 1000BASE-LX, LC connector
OAW-SFP-SX	OmniAccess Wireless SFP - 1000BASE-SX, LC connector
OAW-SFP-TX	OmniAccess Wireless SFP - 1000BASE-T, RJ-45

¹Hardware: 1 year parts/labor; can be extended with support contract. Software: 90 days, extended with support contract.