

Alcatel-Lucent OmniAccess 4306G and OmniAccess 4306GW Branch Office WLAN Switches

The Alcatel-Lucent OmniAccess™ 4306G and OmniAccess 4306GW Branch Office WLAN switches are compact, cost effective and support the identical advanced wireless services that a campus WLAN switch offers. In addition, the OmniAccess 4306G and OmniAccess 4306GW go beyond pure wireless services by providing built-in print and file servers and secured Ethernet connectivity. The OmniAccess wireless centralized configuration and management model enables the OmniAccess 4306G and OmniAccess 4306GW to be deployed, monitored, and controlled without any local IT staff.



Alcatel-Lucent OmniAccess 4306G



Alcatel-Lucent OmniAccess 4306GW

The OmniAccess 4306G and OmniAccess 4306GW support eight Gigabit Ethernet ports with PoE+ capability, four USB ports, and all the advanced wireless services that the larger OmniAccess WLAN switches provide. The OmniAccess 4306GW also includes an integrated 802.11a/b/g/n access point. The OmniAccess 4306G and OmniAccess 4306GW offer leading edge VoWLAN capabilities, which

make them ideal for deployment of Alcatel-Lucent IP Touch™ Wireless LAN handsets, dual mode smart phones and mobile communication applications. The OmniAccess 4306G and OmniAccess 4306GW are also the first OmniAccess WLAN switches with 3G capability. The 3G link can be used to connect to the Internet, to connect back to a centralized WLAN switch or as a back-up connection.

FEATURES	BENEFITS
Zero-touch remote deployment and management	Saves time and lowers costs because installation can be performed by non-IT personnel while complex management tasks are performed from a central location by a remote IT team.
USB ports for network connection of storage devices or printers	USB ports can be used to connect storage devices or printers. These devices are then accessible anywhere in the branch network.
3G connectivity	3G connectivity allows the rapid set-up of a branch network when no wired connection (e.g., DSL) is available, or could be used as a back-up connection in case of primary wired link failure.
Built-in access point	The OmniAccess 4306GW includes an integrated dual-band 802.11a/b/g/n wireless access point. This access point can be used to cost effectively provide connectivity services to 802.11 clients. It can also be used as a mesh portal to quickly deploy a branch WLAN infrastructure without pulling Ethernet cable to the access points in the network.
Dynamic radio frequency (RF) management	Provides analysis of the RF environment to facilitate the deployment of self tuning access points and to fine-tune the operation of the network with virtual real-time site surveys.
Integrated wireless intrusion prevention	Integrates both wireless networking and wireless intrusion detection and prevention (IDS/IPS) thus reducing the cost of the wireless infrastructure and its operation.
User-centric security with stateful firewall	Role-based security reduces the network management burden by preventing unauthenticated users from accessing the corporate wireless network while safely supporting guest users, contractors, and corporate users.
Quality of service	Improves voice quality through the support of quality of service (QoS) mechanisms such as Wi-Fi multimedia (WMM), differentiated services code point (DSCP) marking and prioritization, and connection admission control (CAC).
Extended battery life for voice devices	Improves battery life of mobile devices such as the Alcatel-Lucent IP Touch Wireless LAN handsets with standard protocols including IEEE 802.11e - U-APSD.

Technical specifications

WLAN switch performance and capacity

- External LAN-connected access points (maximum): 16
- Internal access point (OmniAccess 4306GW only): 1
- Remote access points (maximum): 64
- Users (maximum): 256
- MAC addresses: 2048
- VLAN IP interfaces: 128
- Active firewall sessions: 16,384
- Concurrent IPsec tunnels: 256
- Firewall throughput: 2 Gbps
- Encrypted throughput (3DES): 1.6 Gbps
- Encrypted throughput (AES-CCM): 800 Mbps

Interfaces

- Console (RS-232) RJ-45: 1
- Gigabit Ethernet (10/100/1000Base-T): 2
- Gigabit Ethernet (10/100/1000Base-T) with PoE+: 4
- Gigabit Ethernet pluggable (1000Base-X SFP): 2
- ExpressCard®: 1
- USB 2.0: 4

USB device support

- Maximum concurrent printers: 2
- Maximum concurrent HSDPA/GPRS/EDGE/EVDO modems: 2
- Maximum concurrent storage media (Hard disk/Flash): 4
- Maximum concurrent devices (all types): 4

Network printing

- Printing mode: Raw
- Printer driver download to clients: No
- Client compatibility: Microsoft® Windows®, Macintosh® OS, UNIX

Network attached storage

- File protocol: CIFS/SMB
- Share-level security: No
- User-level security: No
- Per-role firewall restriction of share access
- Client compatibility: Microsoft® Windows®, Macintosh® OS, UNIX

- USB 1.0 devices
- USB 2.0 flash storage
- USB 2.0 disk storage
- Maximum storage size: 1TB
- Ext2/Ext3 file system
- FAT16 file system
- FAT32 file system
- NTFS file system: No

Power specifications

- AC input voltage: 100-240 V, Universal Input
- AC input frequency: 50-60 Hz
- Maximum power consumption: 126 Watts
- Power over Ethernet total capacity: 78 Watts
- Power over Ethernet capacity per port: 19.5 Watts

Operating specifications and dimensions

- Operating temperature range: 0°C to 40°C (32°F to 104°F)
- Storage temperature range: 0°C to 50°C (32°F to 122°F)
- Humidity, non-condensing: 5% to 95%
- Height: 1.5 in (38 mm)
- Width: 13.6 in (346 mm)
- Depth: 8.9 in (226 mm)
- Weight: 4.9 lbs/2.2 kg (unboxed)

Compatible USB modems

The following is a partial list of tested and fully supported USB modems. Some modems not on this list may be fully supported with factory-default configuration, while others may require controller configuration in order to function. Please contact your Alcatel-Lucent representative for the latest modem list.

- Novatel Wireless Ovation U727
- Kyocera® KPC680 ExpressCard
- Sierra Wireless® Compass 597
- AT&T® USBConnect Quicksilver
- AT&T USBConnect Mercury

Compatible USB printers

The following is a partial list of tested and fully supported USB printers. Some printers (such as the Hewlett-Packard® HP LaserJet 1000 series) require a firmware upload

each time they are powered on. These printers are currently not supported. Please contact your Alcatel-Lucent representative for the latest printer list.

- HP Deskjet 6988 printer
- HP LaserJet M1522nf MFP
- HP Officejet Pro L7590 All-in-One Printer, Fax, Scanner, Copier
- HP LaserJet P3005
- HP Color LaserJet CP3505
- Lexmark X7675 Professional
- Lexmark T640
- Lexmark C534dn

Compatible USB storage

The following is a partial list of tested and fully supported USB storage devices. Please contact your Alcatel-Lucent representative for the latest storage device list.

- Seagate® FreeAgent® Pro hard drive
- Maxtor® OneTouch™ 4 Plus hard drive
- Western Digital® My Passport Essential WDME3200 hard drive
- Iomega® eGo™ desktop hard drive
- Iomega Desktop Hard Drive hard drive
- Kingston® DataTraveler 100 USB flash drive (2/4/8G)
- SanDisk® Cruzer® Micro USB flash drive (2/8G)

Wireless radio specifications (OmniAccess 4306GW internal access point)

- Access point (AP) type: 2x3, 3x3 multiple-input and multiple-output (MIMO)
- Operating frequency: 2.4-2.5 GHz or 5.150-5.950 GHz
- Available channels: WLAN switch managed, dependent upon configured regulatory domain
- Modulations:
 - 802.11b: Direct-sequence spread-spectrum (DSSS)
 - 802.11a/g: Orthogonal frequency division multiplexing (OFDM)
 - 802.11n: 802.11n draft 2.0
- Transmit power: Configurable in increments of 0.5 dBm

- Association rates (Mbps):
 - 802.11b: 11, 5.5, 2, 1 with automatic fallback
 - 802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6 with automatic fallback
 - 802.11n: MCS0 - MCS15 (6.5Mbps - 300Mbps)
 - 802.11n high-throughput (HT) Support: HT 20/40
 - 802.11n packet aggregation: A-MPDU, A-MSDU

Antenna (OmniAccess 4306GW internal access point)

- Three reverse polarity SMA (RP-SMA) interfaces for external antenna support (supports up to 3x3 MIMO with spatial diversity)
- Three AP-ANT-1B omni-directional dual-band antennas included

Access point operating mode (OmniAccess 4306GW internal access point)

- Branch office 802.11a/n or b/g/n WLAN
- 802.11a/b/g/n air monitor
- Hybrid combination of WLAN/AM
- Remote AP
- Mesh portal
- Configurable to support 802.11n draft 2.0 HT 20/40 channels or mixed-mode deployment IEEE 802.11a/b/g/n

Regulatory and safety compliance – OmniAccess 4306G

- FCC Part 15 Class B
- EN 55022 Class B
- EN 55024
- IEC/EN 60950
- CE Marking
- cTUVus Marked
- CB Scheme Certified

Regulatory and safety compliance – OmniAccess 4306GW

- FCC 15.247/15.407
- EU R&TTE Directive 1999/5/EC (EN 300 328, EN 301 893, EN 301 489)
- EU LV Directive 2006/95/EC
- IEC/EN 60950
- CE Marking
- cTUVus Marked
- CB Scheme Certified

Ordering Information

PART NUMBER	DESCRIPTION
OAW-4306G-0	OmniAccess 4306G – Six 10/100/1000Base-T (RJ-45) ports including four PoE+ capable ports, two 1000Base-X (SFP) ports, and four USB ports. Can support up to 16 access points (AP licenses required).
OAW-4306G-8	OmniAccess 4306G – Six 10/100/1000Base-T (RJ-45) ports including four PoE+ capable ports, two 1000Base-X (SFP) ports, and four USB ports, bundled with eight access point (AP) licenses. Can support up to 16 APs (additional AP licenses required).
OAW-4306GW-1	OmniAccess 4306GW – Six 10/100/1000Base-T (RJ-45) ports including four PoE+ capable ports, two 1000Base-X (SFP) ports, and four USB ports, Integrated 802.11n(draft2.0) AP. Can support up to 16 external APs (AP licenses required).
OAW-4306GW-9	OmniAccess 4306GW – Six 10/100/1000Base-T (RJ-45) ports including four PoE+ capable ports, two 1000Base-X (SFP) ports, and four USB ports, Integrated 802.11n(draft2.0) AP, bundled with eight access point (AP) licenses (for external APs). Can support up to 16 external APs (additional AP licenses required).

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