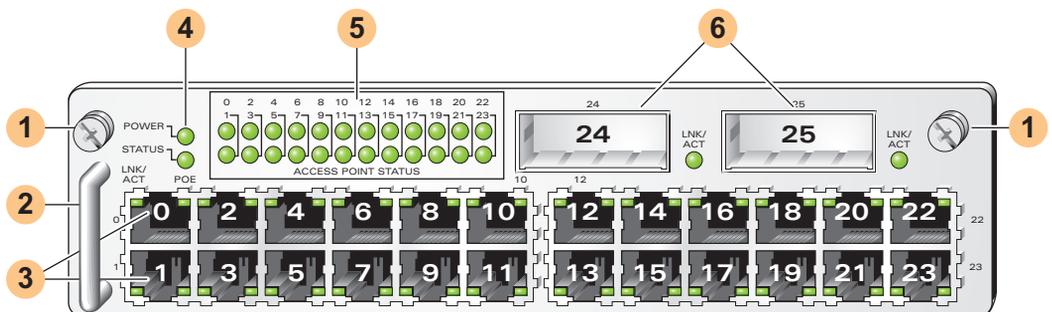


Alcatel OmniAccess 6000 LC-2G24FP Installation Instructions

The Alcatel 6000 SPOE Line Card (OAW-LC-2G24FP) has 24 Fast Ethernet (FE) ports that support Serial and Power over Ethernet (SPOE), and two Gigabit Ethernet Interface Card (GBIC) ports. (SPOE and POE require 400W Power Supply Units, OAW-600-PS400).

When connected directly to an IEEE 802.3af POE compatible device, the port will provide power and data connectivity through the same cable. For devices that support compatible serial wiring or include an appropriate serial breakout adapter, such as the Alcatel Wireless Access Point, the port will provide serial connectivity as well as power and data.

Physical Description



1 Module Fastening Screws

These captive fastening screws are used for securing the module in the switch chassis.

2 Module Handle

This handle is used for removing or inserting the module into the switch chassis.



CAUTION—Do not use the line card handle to lift or move the Alcatel Wireless LAN Switch. Serious damage could result.

3 24 FE Ports

These ports are used to connect APs and wired LAN segments to the Alcatel Wireless LAN Switch. These ports provide 10/100 Mbps Ethernet connectivity, as well as power and serial connectivity. See [“Port and Cable Specifications”](#) for more information.

A LNK/ACT LED

Each FE port has its own LNK/ACT LED, located at the left side of the port. During operation, these LEDs provide the following status information:

TABLE 1 FE LNK/ACT LED

Status	Description
Off	No Ethernet link on the port.
Green	An Ethernet link has been established on the port, but no data is currently being transmitted or received.
Flashing Green	The port is transmitting or receiving data. The flashing rate is proportional to your network activity.
Amber	The Ethernet link on the port is encountering errors.

B POE LED

This LED is supported only on line cards that support POE (such as LC-24FE-2GE-SPOE) and provides the following POE status information:

TABLE 2 FE POE LED

Status	Description
Off	The port is disabled or the attached device has not requested power. POE is not being provided by the port.
Green	POE is being provided to the attached device.
Amber	The attached device has requested power, but POE is not being provided by the port.

4 Module Indicator LEDs

A Power LED

This LED lights green when the line card is properly installed and the system is powered up.

B Status LED

During operation, the Status LED provides the following information:

TABLE 3 Line Card Status LED

Status	Description
Off	The line card is powered off or initializing.
Green	The line card is operating properly.
Amber	The line card is being initialized.
Red	The line card has failed.

5 Access Point Status LEDs

Each LED represents the status of APs connected to a specific port on the switch. During operation, the LEDs provide the following information:

TABLE 4 Line Card AP Status LED

Status	Description
Red (solid)	An AP on this port has failed (highest precedence).
Red (flashing)	An air monitor on this port has detected an unsecured AP. The AP is attached to your network but is not listed in the switch security policies. If security policies are enabled, clients are not granted access to your network through the unsecured AP.
Green (flashing)	An air monitor on this port has detected interference. The interfering device (AP or other radio source) has been detected by your valid APs, but has no wired presence on your network.
Amber (solid)	Load balancing is enabled on this port or an AP has reached the maximum number of clients it is configured to support.
Green (solid)	All detected APs on this port are operating as expected.
Off	No AP is detected on the port (lowest precedence)

The LED states show above are listed in order of precedence (highest to lowest). If more than one AP is connected to the port, the state with the highest precedence is displayed.

6 2 GBIC ports

The GBIC ports can provide high-bandwidth uplinks between the Alcatel Wireless LAN Switch and the wired LAN. The Gigabit Ethernet port sockets accept a variety of Gigabit Interface Converters for versatility in selecting optical and electrical interfaces. See the installation guide for port and cable specifications.

Each GE port has its own LNK/ACT LED, located to the right of the port. During operation, these LEDs provide the following status information:

TABLE 5 GE LNK/ACT LED

Status	Description
Off	No Ethernet link on the port.
Green	An Ethernet link has been established on the port, but no data is currently being transmitted or received.
Flashing Green	The port is transmitting or receiving data. The flashing rate is proportional to your network activity.
Amber	The Ethernet link on the port is encountering errors.

Inserting a Line Card



CAUTION—This procedure should be performed only by a trained technician.



CAUTION—Be sure to exercise proper Electrostatic Discharge (ESD) precautions when handling components.

The line card is hot-swappable and can be inserted into the Alcatel Wireless LAN Switch chassis while system power is on or off. However, hot-swapping a line card is service affecting and traffic processing on this card will stop until the replacement card is installed and operating.

- 1 Make sure you understand the procedure and all precautions.

Before beginning, read the entire procedure. Make sure you understand all the precautions in these installation instructions.

- 2 Prepare the slot.

The first line card should be installed in Slot 2 of the Alcatel Wireless LAN Switch chassis. A second optional line card can be installed in Slot 3, and a third in Slot 1. A line card cannot be installed in Slot 0.



CAUTION—If installing a line card in Slot 1, make sure that the fastening screws for the module in the slot above it are fully secured. If the module in Slot 3 is loose, it could interfere with the new module insertion and possibly damage the components.

If you are replacing a previously installed module, first see [“Removing a Line Card”](#).

To install a module in a previously empty bay, remove the blank cover plate first. To do this, use a #2 Phillips or cross-head screwdriver to loosen both of the fastening screws on the blank cover plate. The screws loosen with counter-clockwise rotation, but are captive and cannot be fully removed.

- 3 Carefully insert the line card into the chassis slot.
- 4 Engage the line card.

There may be moderate resistance when the line card meets the connectors in the backplane. Press firmly so that the connectors at the back of the module engage with the backplane, but do not use excessive force.

If the system is powered up, the module’s Power LED will light up green if the line card is inserted properly.

- 5 Secure the line card.

Use a #2 Phillips or cross-head screwdriver to push in the captive fastening screws and turn them clockwise until moderate resistance is felt. Do not over-tighten.

- 6 Connect the appropriate network cables.

Removing a Line Card



CAUTION—This procedure should be performed only by a trained technician.

The line card is hot-swappable and can be removed from the Alcatel Wireless LAN Switch chassis while system power is on or off.

- 1 Make sure you understand the procedure and all precautions.

Before beginning, read the entire procedure. Make sure you understand all the precautions in these installation instructions.

- 2 Disconnect all cables attached to the line card.
- 3 Loosen the module's fastening screws.

At the front of the Alcatel Wireless LAN Switch, use a #2 Phillips or cross-head screwdriver to loosen both of the fastening screws on the faceplate of the installed line card. The screws loosen with counter-clockwise rotation, but are captive and cannot be fully removed.

- 4 Remove the line card.



CAUTION—If removing a line card from Slot 1, make sure that the fastening screws for the module in the slot above it are fully secured. If the module in Slot 3 is loose, it could interfere with the module removal and possibly damage the components.

Grasp the module handle firmly and draw the line card forward from its slot. There may be moderate resistance as the module comes free from its connections with the chassis backplane, but do not use excessive force. Once disengaged from the backplane, the line card should easily slide out the rest of the way.

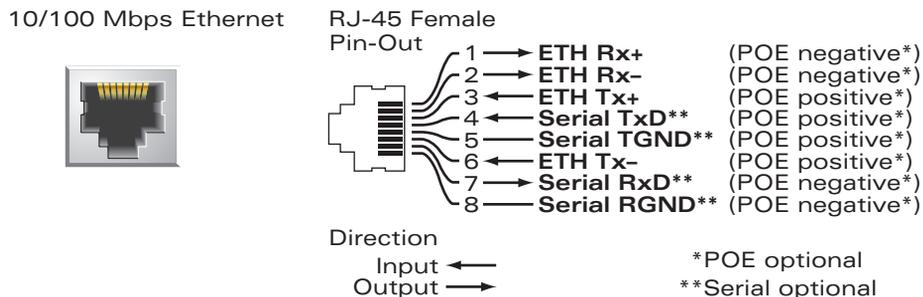
- 5 Cover blank slots.

For safety considerations, as well as to promote proper airflow for cooling and to prevent dust from entering the switch chassis, cover any unoccupied slot with a blank cover plate

Port and Cable Specifications

FE Port

The FE port provides a 10/100 Mbps Ethernet connection to a network. The RJ-45 female connector port pin-outs are shown below:



The port accepts a 4- or 8-conductor Category 5 UTP Ethernet cable with an RJ-45 male connector. A straight-through cable is required for connection to a network port. A crossover cable is required for connection to a management workstation.

For cables that run through plenums or air-handling spaces as described in NEC (2002) Article 300.22(C), the cable should be suitable under NEC Article 800.50 and marked accordingly for use in plenums and air-handling spaces with regard to smoke propagation, such as CL2-P, CL3-P, MPP or CMP. Be sure to install cables in accordance with all applicable local regulations and practices.

Contacting Alcatel

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