



What's in the Box?

The ZyWAN-G9 includes the following components:

- ZyWAN-G9 cellular routing modem with options for WiFi and GPS. USB cellular modems available separately from cellular carriers.
- Optional hardware for customer-specific variants

Optional and/or customer-supplied equipment may include:

- Null modem serial cable
- Crossover Ethernet cable
- 24 VDC power adapter and regional AC power cord
- ZyWAN-G9 power cable with flying leads



Warning: Test flying lead power connections before connecting to the ZyWAN-G9. Reversed power connections can permanently damage a ZyWAN-G9.

Preparing the ZyWAN-G9 System

The ZyWAN-G9 has been designed to work out of the box. Follow these steps to prepare it for use.

See the ZyWAN-G9 User Manual for more details.

Web Configuration Page

1. Connect a crossover Ethernet cable from a computer to the Ethernet 1 port.

2. Configure the computer to obtain its IP address and DNS server automatically (DHCP).
3. Connect a 12 or 24 VDC power adapter to the DC power input. The power plug must be inserted with the flat part of the plug facing up (toward the top of the ZyWAN-G9 front panel). The power LED illuminates when the power adapter is connected.
4. Wait approximately one minute for the ZyWAN-G9 to start up. Then open a Web browser and enter the address:

<http://192.168.1.1>

(Note: Some customer-specific ZyWAN-G9s may be configured differently. See project documentation.)

5. A warning will be given about the security certificate. Click "Continue to this website" (Internet Explorer), "Accept this certificate" (Mozilla Firefox 2), or "Add an exception" (Mozilla Firefox 3).
6. In the password dialog box, enter the username "arcom" and password "arcom".
7. The ZyWAN-G9 configuration is displayed, including a series of tabbed pages.
8. On each page, make any necessary configuration changes and click the Submit New Configuration button at the bottom of the page.
9. After the changes have been made on each tab, restart the ZyWAN-G9 to make the changes take effect. To restart, click the Reboot with New Settings button on the Web submit page or cycle power.

Administrative Login

The COM1 port of the ZyWAN-G9 is used for a serial console allowing administrative login to the ZyWAN-G9. Follow these steps to prepare it for use.

1. Connect a null modem serial cable from the computer to the COM1 port on the ZyWAN-G9.
2. Run a terminal program on the computer. Configure it for 115,200, 8 bits, 1 stop bit, no parity, no flow control.
3. Apply power to the system. After the system starts, press the Enter key in the computer terminal program.
4. At the login prompt, enter the username “root” and password “arcom”.

See the ZyWAN-G9 User Manual for more details about administrative login, as well as how to gain access to the administrative console over a network using an SSH client (e.g. PuTTY).

Operating System Details

The ZyWAN-G9 runs Arcom Embedded Linux, which is based on Linux 2.6.32.11.

SIM Card/Cellular Activation

USB MODEM (3G/EVDO)

The ZyWAN-G9 includes several USB slots which support cellular modems from various vendors. These modems require activation with data services in order to connect to the cellular network. To install the USB modem, complete the following steps:

1. Disconnect the power connector, and then disconnect other connectors from the ZyWAN-G9.
2. Turn the ZyWAN-G9 upside down and remove the five screws from the large USB cover plate on the bottom of the enclosure.
3. Fit antenna cable into the modem, and insert the modem into one of the two USB locking connectors. The antenna cable fits into the faceplate in the “Antenna A” or “Antenna B” position.
4. In vibration environments, it is recommended to secure the modem using adhesive foam pads and to secure the cable so it cannot vibrate loose from the modem.
5. Replace the USB cover plate and all connectors, reconnecting power last.

Technical Support

The Eurotech support site includes errata reports, the latest releases of documents, and developer’s forums. These resources are available to registered users at:
<http://support.eurotech-inc.com/>

Next Steps

For additional information, download the ZyWAN-G9 User Manual (Eurotech document #110150-4002) from the support site or contact your local sales representative.

IDEN

ZyWAN-G9 with IDEN modems require an activated SIM card account with data services in order to connect to the cellular network. To change or install the SIM card, complete the following steps:

1. Disconnect the power connector, and then disconnect other connectors from the ZyWAN-G9.
2. Turn the ZyWAN-G9 upside down and remove the four screws from the small SIM access panel.
3. Slide the black SIM card holder to the open position and remove the existing SIM card.
4. Install the new SIM card, sliding the cover to lock the card in place. Ensure the card is fully seated and the SIM card holder is locked firmly into place. If the SIM card is not installed properly, the ZyWAN-G9 will not connect to the network. Replace the access panel.
5. Restore all connections, reconnecting power last.

Indicator LEDs

The system includes LEDs with the following assignments:

LED	Indicates	Description
Top	Power and GPS	OFF – powered off ON – during startup Slow blink – no GPS lock Fast blink – GPS position lock
Middle	Cellular connection	OFF – no cellular connection ON – cellular connection made Blink – cellular data received
Bottom	WiFi connection	OFF – no WiFi connection ON – WiFi connection made Blink – WiFi data received

Options

The ZyWAN-G9 platform’s flexible design supports several options, enabling many possible combinations to meet your system requirements. Your ZyWAN-G9 may include one or more of the following optional functions:

- Cellular modem with antenna connector
- WiFi with antenna connector
- GPS with antenna connector

Contact Us

EUROTECH

Toll-free +1 888.941.2224

Tel. +1 301.490.4007

Fax +1 301.490.4582

E-mail: sales.us@eurotech.com

E-mail: support.us@eurotech.com

Web: www.eurotech-inc.com