



PACKAGE CONTENTS

Make sure that all items have been received:

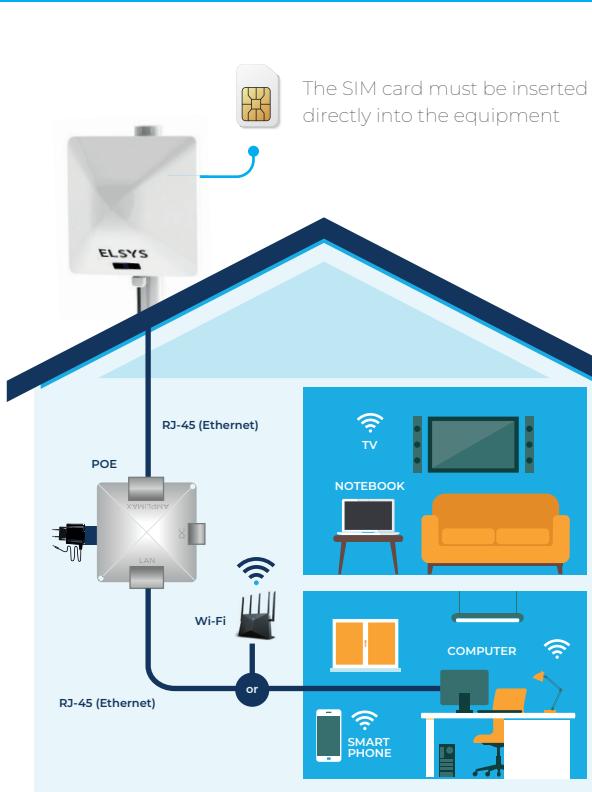
- 1 Amplimax Ultra
- 1 power adapter - 24 VDC/1A
- 1 POE (Power Over Ethernet) injector
- 1 long (49.2 feet) network cable
- 1 short (4.6 feet) network cable
- 2 metal clamps
- 2 plastic clamps
- 1 wall mounting bracket (optional use)
- 1 cable gland

KNOW YOUR EQUIPMENT BETTER

Amplimax Ultra is an innovative equipment developed and manufactured in Brazil by Elys, allowing internet access even in hard-to-reach places. It integrates a 5G modem and a high gain directional antenna with dual polarization, and it also has two additional omnidirectional antennas, resulting in four integrated antennas. This configuration allows long-range and high communication rates. Purchase a cellular data plan, insert the nano SIM card into the device, and connect it to a WiFi router to start web browsing.

To enjoy maximum range and avoid signal losses caused by walls, the Amplimax Ultra should be installed outdoors. The Easy Install embedded function indicates the strongest signal and helps you to choose between the available service providers on your region even before you buy the SIM Card. It also allows you to identify the best location for installation.

CHECK THE CONNECTIONS MAP



CONNECTIONS

Use only certified and tested network cables, especially the long cable. If you do not use the 49.2 ft cable that comes with the Amplimax Ultra, use a minimum specification CAT6 cable with a maximum length of 328 feet. The procedure described below ensures the proper functioning and sealing of the equipment. Device warranty will be voided if the following procedures are not followed.

1 Get the cable gland from the packaging. Remove its cover and sealing rubber.



2 Pass the long network cable through the disassembled cable gland parts according to the sequence below and plug in to the Rj-45 jack.



3 Screw the cable gland into the cabinet, fix and insert the sealing rubber inside the cable gland connector and screw on the cover.



STEP 1 BLIND SEARCH

If you have already chosen your carrier, you can skip step 1 and go directly to step 2.



Make sure that your Amplimax Ultra has no SIM card inserted. The display should show "Insert SIM".

Then Press the Easy Install button. This will start the Blind Search process and the Amplimax Ultra will scan all frequency bands. After approximately 1 minute, the names of the identified carriers and their respective received signal levels will be shown on the display. This information is organized for each of the technologies: <5G> and <4G>.



You can try the Blind Search at various locations where equipment installation is possible and test pointing it in different directions.

STEP 2 INSERTING THE SIM CARD

Insert the SIM card. If the equipment identifies a cellular network, it will display its name, followed by the frequency band, signal level, and technology (5G or 4G). See the list of possible messages:

Message	Meaning
Insert SIM	No SIM card inserted
SIM	SIM card 1 is active
SIM2	SIM card 2 is active
5G	Electronic SIM and internal active
No Registration	No registration on any cellular network
Scanning	Searching for cellular network
ATT+Mob_Verion	Carrier in which the equipment is registered
99%	Level received from 0 to 99%
00-2000, 3500	Band (MHz) in which the equipment is operating
SC-5G	SC Stand Alone technology
SC-NSA	SC Non Stand Alone technology
4G	4G Technology
Insert PIN	SIM card requires PIN to be unlocked
24 V	Supply voltage entering the equipment
Off xx	Unknown carrier
Disabled Restart and register	Equipment disabled, cannot browse the internet. Restart the Equipment and then register it so it can access the internet.
Connected	Equipment connected to the internet.
Disconnected	Equipment registered, enabled but no internet access

Amplimax Ultra has two SIM cards slots. You can choose between them manually or automatically through the settings page. The "AUTO" option can switch the selection of the slot by identifying which one has a SIM Card inserted. If both slots have SIM Card inserted, the slot 1 has priority.

STEP 3 ADJUSTING THE ANTENNA DIRECTION

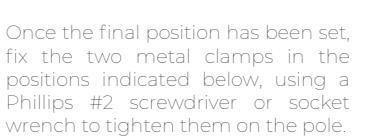
To adjust your equipment antenna direction, please ensure the SIM card is inserted, and the cellular network information is displayed. Press the "Easy Install" button. The Amplimax Ultra will show the received signal level in the display in real-time. In addition, it will emit a beep sound, which will beep faster the stronger the network connection is. To finish this process, press the "Easy Install" button again.



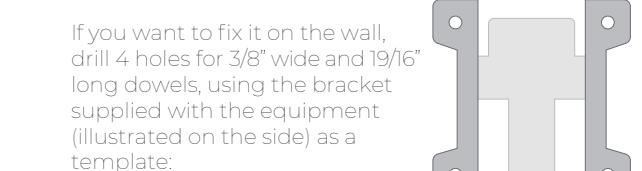
STEP 4 INSTALLING THE EQUIPMENT

POLE

Pole mounting is made using two metal clamps. To facilitate installation, first use one of the plastic clamps to make a preliminary fixing. Insert it in the indicated position and fix it on the mast without tightening too much so that you can determine the pointing and height more accurately.



WALL

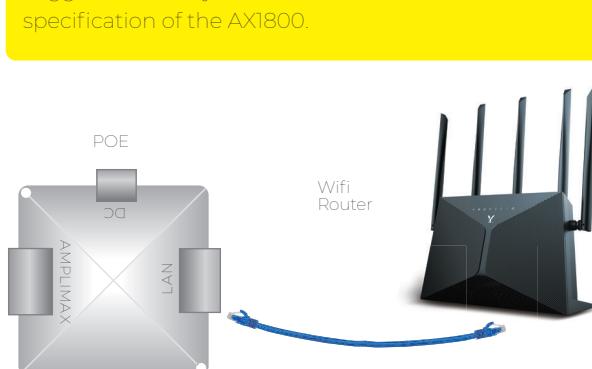


If you want to fix it on the wall, drill 4 holes for 3/8" wide and 19/16" long dowels, using the bracket supplied with the equipment (illustrated on the side) as a template:

screw hole

Fix the bracket to the wall using four screws (5/16"). Then, attach the equipment to this bracket.

STEP 5 CONNECTING TO THE ROUTER OR PC



CONNECT TO THE COMPUTER

Now that the equipment is installed, it can be used in one of the following ways:

1 CONNECT TO WI-FI ROUTER

Plug one end of the short network cable into the LAN port of your POE and the other end into the WAN port of your WiFi router, which should be set to DHCP Client mode (typically the factory default). This way, you will only use the Internet through this one device.

NOTE: To enjoy the full speed of Amplimax Ultra, it is recommended to use a computer with a network port of at least 1 Gbps.

STEP 6 REGISTER YOUR EQUIPMENT

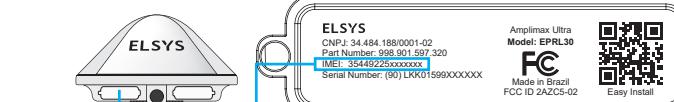
At this stage, your Amplimax Ultra must have access to the internet. Elys recommends registering the equipment on our website. Thereby, you will be informed about equipment updates, new features, releases, use cases, and tips for installation and maintenance.



For more information about Amplimax Ultra, please visit the page: <https://elsys.com/en/amplimax-ultra-en/>

SAFETY NOTICE

Follow the procedure indicated on the registration page. The first information requested will be the IMEI (a unique identification code for any device with cellular technology). It has 15 numeric digits (cc) and can be found on the equipment label:



Or on your monitoring page (IP 192.168.10.254, see next item):

If you encounter any difficulties with registration, please contact us at hello@elsys.com. Our team will be ready to assist you. Elys may collect some technical data to improve the user experience.

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