



EKSELANS BY ITS

USER MANUAL

TR3000W6 OLP 331018

Omnidirectional outdoor access point.
27dBm, 2 ports 10/100/1000, 3000Mbps.
WiFi 6 2.4 / 5GHz. PoE 48Vdc

V03

INDEX

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Introduction.

Description:

Access point 2.4 / 5GHz. 3000Mbps (600+2400Mbps), 27dBm, PoE 48V. Wifi AX. High turnout.

Content:

1. 1 x TR3000W6 OLP.
2. 1 x UTP cable.

Interfaces, connection and access to the equipment.

Interfaces:



Connection

- **AP Mode:** WAN connector from the AP to the internet network. LAN port to the equipment that is intended to be served by LAN.
- **Gateway:** WAN connector from the AP to the internet network.
- **Repeater Mode:** WAN or LAN port to the equipment to be served. Never to the client network where the company's main equipment is connected.
- **WISP mode:** WAN or LAN port to the equipment to be served. Never to the client network where the company's main equipment is connected.

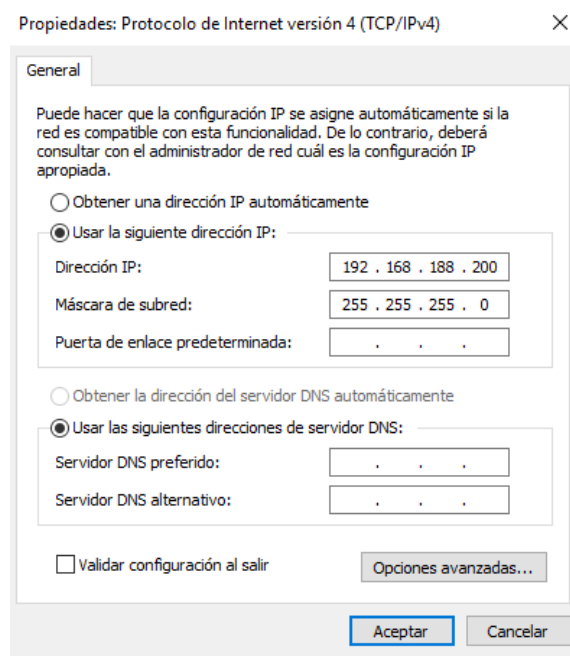
A 48v POE injector connected to the AP's WAN can be inserted in all connections to power it. This is done if a 12V 2A power supply is not used.

Access to the device:

Method 1: The TR is not connected to the network

To access TRs, follow these steps:

1. Connect to TRs with a network cable or wirelessly. By default the wireless network is AP_EK... The default password is 123456789.
2. Configure the PC network adapter with a static IP as shown in the image. To facilitate configuration at EK we have the Ek NET Adapter application, with which we can easily configure the network adapter. It can be downloaded free of charge from <https://ek.plus/software/>, in the "EK NET ADAPTER" section.



3. Open a web browser and go to the URL: <http://192.168.188.253>.
4. Password: admin.

Method 2 The TR is connected to the Network.

By default, the computer acquires an IP if there is a DHCP server on the network. To access and configure it, the IP can be located through our controller. Both the physical computers and the version that can be installed on the PC (the CSW). The installable version can be found at the following link <https://www.ek.plus/product/csw/>.

Interface.

Status: Device Information

We will be able to view the general information of the equipment and the Wi-Fi. It will also allow us to see the equipment connected to the APs.

AP Mode:



The screenshot displays a web interface for device configuration. It is divided into several sections:

- Información del dispositivo (1):**
 - Modelo: TR3000W6
 - Versión del Firmware: 2.1
 - Modo de funcionamiento actual: Modo AP
 - Fuente de alimentación: Necesita un voltaje de 12V y una intensidad de 2A
 - Antenas: Internas, doble banda, MIMO 3T3R
 - Tiempo activo: 03:41:52
 - Uso de CPU: 12% (indicated by an orange progress bar)
 - Uso de memoria: 42% (indicated by a green progress bar)
- Información de la red (WAN) (2):**
 - Modo Internet: IP estática
 - Dirección IP: 172.16.4.141
 - Puerta de enlace: 172.16.5.5
 - DNS: 8.8.8.8, 8.8.4.4
 - Dirección MAC: 74:1A:E0:E9:94:6C
- Información de la WiFi (2G WiFi) (3):**
 - Estado: ON
 - Dispositivos conectados: 0
 - SSID: EK_AP_2G
 - Canal: 6
 - Dirección MAC: 74:1A:E0:E9:94:6D
 - Paquetes Enviados: 199910
 - Paquetes Recibidos: 0
- Información de la WiFi (5G WiFi) (4):**
 - Estado: ON
 - Dispositivos conectados: 0
 - SSID: EK_AP_5G
 - Canal: 128
 - Dirección MAC: 74:1A:E0:E9:94:6E
 - Paquetes Enviados: 199170
 - Paquetes Recibidos: 0

1. Device Information.
2. Network Information (WAN).
3. WiFi information (2G Wifi).
4. WiFi information (5G Wifi).

GATEWAY:

Información del dispositivo

Modelo:	TR3000W6	1
Versión del Firmware	2.1	
Modo de funcionamiento actual	Modo Gateway	
Fuente de alimentación:	Necesita un voltaje de 12V y una intensidad de 2A	
Antenas:	Internas, doble banda, MIMO 3T3R	
Tiempo activo:	00:05:25	
Uso de CPU:	9%	
Uso de memoria:	42%	

Información de la red (WAN)

Modo Internet	IP estática	2
Dirección IP	172.16.4.141	
Puerta de enlace	172.16.5.5	
DNS	8.8.8.8, 8.8.4.4	
Dirección MAC	74:1A:E0:E9:94:6C	

Información de la red (LAN)

Lan IP	192.168.100.1	5
Subred	255.255.255.0	
Servidor DHCP	Sí	
Dirección MAC	74:1A:E0:E9:94:6D	
STP	Sí	

Información de la WiFi (2G WiFi)

Estado	ON	3
Dispositivos conectados	0	
SSID	EK_AP_2G	
Canal	6	
Dirección MAC	74:1A:E0:E9:94:6D	
Paquetes Enviados	38	
Paquetes Recibidos	0	

Información de la WiFi (5G WiFi)

Estado	ON	4
Dispositivos conectados	0	
SSID	EK_AP_5G	
Canal	128	
Dirección MAC	74:1A:E0:E9:94:6E	
Paquetes Enviados	0	
Paquetes Recibidos	0	

1. Device Information.
2. Network Information (WAN).
3. WiFi information (2G Wifi).
4. WiFi information (5G Wifi).
5. Network Information (LAN).

REPEATER:

Información del dispositivo

Modelo:	TR3000W6	1
Versión del Firmware	2.1	
Modo de funcionamiento actual	Modo Repeater	
Fuente de alimentación:	Necesita un voltaje de 12V y una intensidad de 2A	
Antenas:	Internas, doble banda, MIMO 3T3R	
Tiempo activo:	00:18:32	
Uso de CPU:	5%	<div style="width: 5%; height: 10px; background-color: orange; border: 1px solid #ccc;"></div>
Uso de memoria:	42%	<div style="width: 42%; height: 10px; background-color: green; border: 1px solid #ccc;"></div>

Información de la red (WAN)

Modo Internet	IP estática	2
Dirección IP	172.16.4.141	
Puerta de enlace	172.16.5.5	
DNS	8.8.8.8, 8.8.4.4	
Dirección MAC	74:1A:E0:E9:94:6C	

Información Repeater

SSID repetidor	EKSELANS	5
BSSID router emisor	74:1a:e0:e2:ea:45	
Canal	6	
Señal	<div style="width: 50%; height: 10px; background-color: blue; border: 1px solid #ccc;"></div>	

Información de la WiFi (2G WiFi)

Estado	ON	3
Dispositivos conectados	0	
SSID	EK_AP_2G	
Canal	6	
Dirección MAC	74:1A:E0:E9:94:6D	
Paquetes Enviados	1400	
Paquetes Recibidos	1539	



Información de la WiFi (5G WiFi)

Estado	ON	4
Dispositivos conectados	0	
SSID	EK_AP_5G	
Canal	128	
Dirección MAC	74:1A:E0:E9:94:6E	
Paquetes Enviados	0	
Paquetes Recibidos	0	

1. Device Information.
2. Network Information (WAN).
3. WiFi information (2G Wifi).
4. WiFi information (5G Wifi).
5. Information Repeater.

WISP:

Información del dispositivo

Modelo:	TR3000W6	1
Versión del Firmware	2.1	
Modo de funcionamiento actual	Modo WISP	
Fuente de alimentación:	Necesita un voltaje de 12V y una intensidad de 2A	
Antenas:	Internas, doble banda, MIMO 3T3R	
Tiempo activo:	00:17:37	
Uso de CPU:	2%	
Uso de memoria:	42%	


Información de la red (WAN)

Modo Internet	IP estática	2
Dirección IP	172.16.4.165	
Puerta de enlace	172.16.5.5	
DNS	8.8.8.8, 8.8.4.4	
Dirección MAC	7A:1A:E0:E9:94:6D	

Información de la red (LAN)

Lan IP	192.168.100.1	5
Subred	255.255.255.0	
Servidor DHCP	Sí	
Dirección MAC	74:1A:E0:E9:94:6C	
STP	Sí	

Información Repeater

SSID repetidor	EKSELANS	6
BSSID router emisor	74:1a:e0:e2:ea:45	
Canal	6	
Señal		

Información de la WiFi (2G WiFi)

Estado	ON	3
Dispositivos conectados	0	
SSID	EK_AP_2G	
Canal	6	
Dirección MAC	74:1A:E0:E9:94:6D	
Paquetes Enviados	2120	
Paquetes Recibidos	22360	

Información de la WiFi (5G WiFi)

Estado	ON	4
Dispositivos conectados	0	
SSID	EK_AP_5G	
Canal	36	
Dirección MAC	74:1A:E0:E9:94:6E	
Paquetes Enviados	698	
Paquetes Recibidos	0	

1. Device Information.
2. Network Information (WAN).
3. WiFi information (2G Wifi).
4. WiFi information (5G Wifi).
5. Network Information (LAN).
6. Information Repeater.

Status: Connected Devices.

We will be able to see the devices connected to the 2.4GHz Wifi and the 5.8GHz Wifi as well as their information.



Network: Network Settings.

We will be able to select the mode in which we want the device to work. To make the changes, you must press apply.

The screenshot shows the web interface for the Ek TR3000W6 v2.1 device. The left sidebar contains navigation options: Estado, Red, Conf.de Red, Anuncios SAP/SDP, VLAN, WiFi, Administración, and Salir. The main content area is titled 'Configuración de Red' and features a 'Modo de operación' section with four radio buttons: Modo Gateway, Modo Repeater, Modo WISP, and Modo AP (which is selected and highlighted in dark blue). A 'Modo Actual' button is also present. Below this is a diagram of a WAN connection showing a globe and a wireless signal icon. A text box explains: 'En este modo, la interfaz inalámbrica AP y la interfaz por cable se unen. Sin NAT, firewall y todas las funciones relacionadas con la red.' The 'Configuración de Red WAN' section includes fields for: Modo de IP (DHCP), Wan IP (172.16.4.141), Máscara de red (255.255.254.0), Puerta de enlace (192.168.1.1), DNS primaria (8.8.8.8), and DNS secundaria (8.8.4.4). An 'Aplicar' button is located at the bottom of the configuration area.

- Change Mode:
 - **Gateway** Mode: In this mode, the device is supposed to connect to the internet via ADSL/Cable Modem. NAT is enabled and PCs on LAN ports share the same IP with the ISP over the WAN port. The connection type can be configured on the WAN page using PPPOE, DHCP Client or static IP.
 - **Repeater** Mode: In this mode, the user can access the wireless access point, devices can be connected to another wireless network using wireless technology, all interfaces are linked. No NAT, firewall, and all network-related functions.
 - **WISP** Mode: In this mode, all ethernet ports are bridged and the wireless client will connect to the ISP's access point. NAT is enabled and PCs on the ethernet port share the same IP with the ISP over the wireless LAN. You must first set up the wireless connection in client mode and connect to the ISP AP on the Site-Survey page. The

connection type can be configured on the WAN page using PPPOE, DHCP client, and static IP.

- **AP Mode:** In this mode, the wireless AP interface and the wired interface are joined. No NAT, firewall, and all network-related functions.

Depending on the mode you select, a series of configurable options will appear.

AP mode configuration.

Configuración de Red WAN

Modo de IP	DHCP ▼
Wan IP	172.16.4.141
Máscara de red:	255.255.254.0
Puerta de enlace	192.168.1.1
DNS primaria	8.8.8.8
DNS secundaria	8.8.4.4

- WAN Network Configuration:
 - **IP Mode:**
 - **Static IP:** A management IP is set statically.
 - **DHCP:** The management IP is given by the router installed on the client.
 - **WAN IP:** We set the desired static IP. **Only in IP mode 'static IP'.**
 - **Subnet:** We put the mask for the management IP. **Only in IP mode 'static IP'.**
 - **Gateway:** We select the gateway from the computer. **Only in IP mode 'static IP'.**
 - **Primary DNS:** The primary "Domain Name System" is selected. **Only in IP mode 'static IP'.**
 - **Secondary DNS:** The secondary "Domain Name System" is selected. **Only in IP mode 'static IP'.**

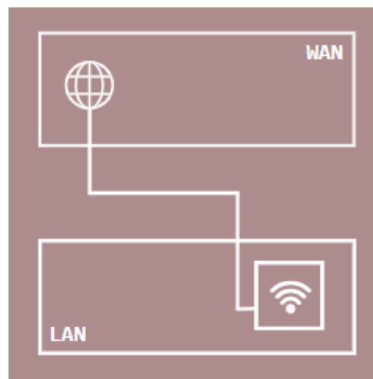
Gateway mode configuration.

Configuración de Red

Modo de operación

- Modo Gateway**
- Modo Repeater
- Modo WISP
- Modo AP

← Modo Actual



En este modo, se supone que el dispositivo se conecta a Internet a través de ADSL / Cable Módem. El NAT está habilitado y PCs en los puertos LAN comparten la misma IP con el ISP a través del puerto WAN. El tipo de conexión se puede configurar en la página WAN usando PPPOE, Cliente DHCP o IP estática.

Configuración de Red WAN

Modo de IP	DHCP	▼
Wan IP	172.16.4.141	
Máscara de red:	255.255.254.0	
Puerta de enlace	192.168.1.1	
DNS primaria	8.8.8.8	
DNS secundaria	8.8.4.4	
Habilitar Acceso Web WAN	<input type="checkbox"/>	Puerto 443
Habilitar Ping en WAN	<input type="checkbox"/>	
Habilitar IPsec en VPN	<input type="checkbox"/>	
Habilitar PPTP en VPN	<input type="checkbox"/>	
Habilitar L2TP sobre VPN	<input type="checkbox"/>	

Configuración de LAN

Lan IP	192.168.100.1	
Subred	255.255.255.0	
Servidor DHCP	<input checked="" type="checkbox"/>	
Dirección de inicio	2	
Número Máximo	128	
Tiempo de arrendamiento de DHCP (Horas)	24	Lista DHCP

Aplicar

- WAN Network Configuration:
 - **IP Mode:**
 - **Static IP:** We can assign a static IP to the WAN port.
 - **DHCP:** Configured to automatically acquire IP from the client router.
 - **Netmask:** We put the mask for the management IP. **Only in IP mode 'static IP'.**
 - **Gateway:** We select the gateway from the computer. **Only in IP mode 'static IP'.**
 - **Primary DNS:** The primary "Domain Name System" is selected. **Only in IP mode 'static IP'.**
 - **Secondary DNS:** The secondary "Domain Name System" is selected. **Only in IP mode 'static IP'.**
 - **Enable WAN Web Access:** Allows access to the AP web interface by the assigned port and the IP you have acquired/assigned.
 - **Enable PING on WAN:** Enables ICMP response to the acquired/assigned WAN IP.
 - **Enable IPsec in VPN:** Allows the use of the IPsec protocol to establish VPN connections, ensuring the security and privacy of communication between networks.
 - **Enable PPTP in VPN:** Allows the use of PPTP (Point-to-Point Tunneling Protocol) to establish VPN connections, which is one of the oldest methods, but still widely used.
 - **Enable L2TP over VPN:** Allows the use of the L2TP (Layer 2 Tunneling Protocol) protocol to establish VPN connections, which is commonly used in combination with the IPsec protocol to provide a secure tunnel for data transmission.
- LAN Configuration
 - **LAN IP:** IP address of the local network.
 - **Subnet:** A mask that defines the range of available IP addresses.
 - **DHCP Server:** Enable the DHCP server.
 - **Start Address:** First number in the range of assignable IP addresses.
 - **Maximum Number:** Maximum limit of assignable IP addresses.
 - **DHCP Lease Time:** Time before an assigned IP address needs to be renewed.

Configuring Repeater Mode.

Configuración de Red

Modo de operación	Modo Gateway		
	Modo Repeater		
	Modo WISP		
	Modo AP		← Modo Actual

WAN

En este modo, el usuario puede acceder al punto de acceso inalámbrico, los dispositivos se pueden conectar a otra red inalámbrica utilizando la tecnología inalámbrica, todas las interfaces están unidas. Sin NAT, firewall y todas las funciones relacionadas con la red.

Configuración de Red WAN

Modo de IP	DHCP
Wan IP	172.16.4.141
Máscara de red:	255.255.254.0
Puerta de enlace	192.168.1.1
DNS primaria	8.8.8.8
DNS secundaria	8.8.4.4

Configuración de Repeater

Seleccionar Radio	5G
SSID	SomeWirelessNetwork5G Scan
Bloquear BSSID	00:00:00:00:00:00
Encriptación	WPA/WPA2PSK-TKIP/AES
Contraseña

- WAN Network Configuration:
 - IP Mode:
 - **Static IP:** A management IP is set statically.
 - **DHCP:** The management IP is given by the router installed on the client.

- **WAN IP:** We set the desired static IP. **Only in IP mode 'static IP'.**
- **Subnet:** We put the mask for the management IP. **Only in IP mode 'static IP'.**
- **Gateway:** We select the gateway from the computer. **Only in IP mode 'static IP'.**
- **Primary DNS:** The primary "Domain Name System" is selected. **Only in IP mode 'static IP'.**
- **Secondary DNS:** The secondary "Domain Name System" is selected. **Only in IP mode 'static IP'.**
- **Repeater Settings:**
 - **Select Radio:** Choosing the frequency band for the wireless network for repeat.
 - **SSID:** The SSID (Service Set Identifier) is the unique name that identifies a wireless network.
 - **Block BSSID:** The specific MAC address (BSSID) "00:00:00:00:00:00" is blocked, which means that you will only be able to connect to an SSID that has that MAC.
 - **Encryption:** A security method used to protect the wireless network.
 - **Password:** The SSID password to be able to connect

WISP mode configuration.

Configuración de Red

Modo de operación

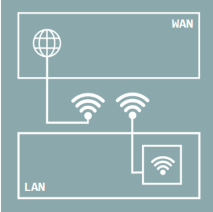
Modo Gateway

Modo Repeater

Modo WISP

Modo AP

← Modo Actual



En este modo, todos los puertos ethernet están puenteados y el cliente inalámbrico conectará al punto de acceso del ISP. El NAT está habilitado y PCs en el puerto ethernet comparten la misma IP con el ISP a través de la LAN inalámbrica. Primero debe configurar la conexión inalámbrica en modo cliente y conectarse al ISP AP en la página Site-Survey. El tipo de conexión se puede configurar en la página WAN utilizando PPPoE, cliente DHCP e IP estática.

Configuración de Red WAN

Modo de IP: DHCP

Wan IP: 172.16.4.141

Máscara de red: 255.255.254.0

Puerta de enlace: 192.168.1.1

DNS primaria: 8.8.8.8

DNS secundaria: 8.8.4.4

Habilitar Acceso Web WAN: Puerto: 443

Habilitar Ping en WAN:

Habilitar IPsec en VPN:

Habilitar PPTP en VPN:

Habilitar L2TP sobre VPN:

Configuración de LAN

Lan IP: 192.168.100.1

Subred: 255.255.255.0

Servidor DHCP:

Dirección de inicio: 2

Número Máximo: 128

Tiempo de arrendamiento de DHCP (Horas): 24 Lista DHCP

Configuración de Repeater

Seleccionar Radio: 5G

SSID: SomeWirelessNetwork5G Scan

Bloquear BSSID: 00:00:00:00:00:00

Encriptación: WPA/WPA2PSK-TKIPAES

Contraseña:

- WAN Network Configuration:
 - IP Mode:
 - **Static IP:** We can assign a static IP to the WAN port.
 - **DHCP:** Configured to automatically acquire IP from the client router.

- **Netmask:** We put the mask for the management IP. **Only in IP mode 'static IP'.**
- **Gateway:** We select the gateway from the computer. **Only in IP mode 'static IP'.**
- **Primary DNS:** The primary "Domain Name System" is selected. **Only in IP mode 'static IP'.**
- **Secondary DNS:** The secondary "Domain Name System" is selected. **Only in IP mode 'static IP'.**
- **Enable WAN Web Access:** Allows access to the AP web interface by the assigned port and the IP you have acquired/assigned.
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- LAN Configuration
 - **LAN IP:** IP address of the local network.
 - **Subnet:** A mask that defines the range of available IP addresses.
 - **DHCP Server:** Enable the DHCP server.
 - **Start Address:** First number in the range of assignable IP addresses.
 - **Maximum Number:** Maximum limit of assignable IP addresses.
 - **DHCP Lease Time:** Time before an assigned IP address needs to be renewed.
- Repeater Settings:
 - **Select Radio:** Choosing the frequency band for the wireless network for repeat.
 - **SSID:** The SSID (Service Set Identifier) is the unique name that identifies a wireless network.
 - **Block BSSID:** The specific MAC address (BSSID) "00:00:00:00:00:00" is blocked, which means that you will only be able to connect to an SSID that has that MAC.
 - **Encryption:** A security method used to protect the wireless network.
 - **Password:** The SSID password to be able to connect

Network: SAP Ads.



This option is important if you are going to use it with a UC-TR or with CSW software. This allows the AP to send SAP packets over the NETWORK for the UC-TR and CSW to detect correctly. If neither of these two options is used, it can be disabled.

Network: VLAN.
AP mode only.

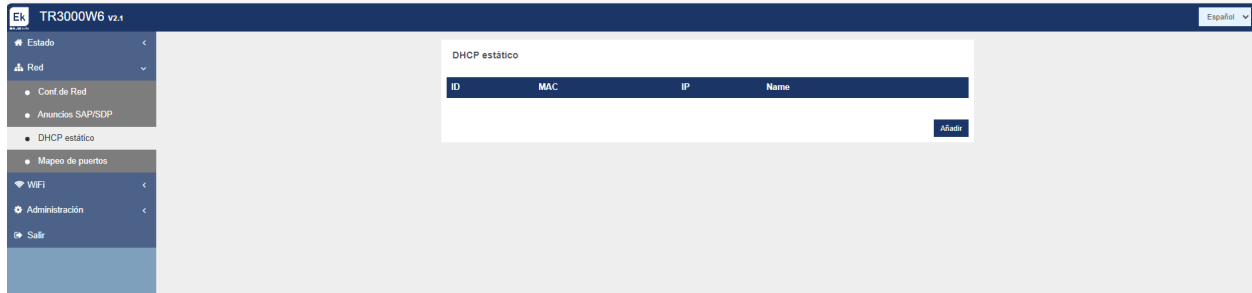


This option enables the use of VLANs as well as the assignment of each VLAN to each SSID for each band.

Static DHCP.

Only in Gateway and Wisp mode.

It allows us to put the IP we want within the DHCP range as a stat linked to a device.



Port mapping.

Only in Gateway and Wisp mode.

We can configure ports to remotely access end devices.



Wifi: Settings.

We can manage everything related to Wi-Fi from the following options. To make the changes, you must press apply.

2.4G Wifi.

- Basic: This is the main SSID that is issued, by default it is always enabled.
 - **Enable:** You can activate or deactivate the emission of 2G Wi-Fi.
 - **Wifi Analyzer:** It allows us to see the networks that are broadcasting around us.
 - **SSID:** The name of the 2G Wi-Fi is configured.

- **Hide your SSID:** Allows you to hide the SSID so that, even if it is emitting the SSID, it does not appear when doing a Wi-Fi search to make a connection.
 - **Channel:** Allows us to configure the width of the channel.
 - **Encryption:** It allows us to select the encryption mode or make it free if desired.
 - **Wifi Password:** Allows us to configure the password for the selected SSID.
- VAP1, VAP2 and VAP3: These are different virtual SSIDs that can be activated depending on the needs. If we activate them we will have other SSIDs broadcasting on the same channel as the basic one, but with another password if desired.
 - **Enable:** You can turn on or off 2G Wi-Fi broadcasting
 - **SSID:** The name of the 2G Wi-Fi is configured.
 - **Hide your SSID:** Allows you to hide the SSID so that, even if it is emitting the SSID, it does not appear when doing a Wi-Fi search to make a connection.
 - **Encryption:** It allows us to select the encryption mode or make it free if desired.
 - **Wifi Password:** Allows us to configure the password for the selected SSID.

5G Wifi.

The screenshot shows the configuration page for 5G WiFi on the TR3000W6 v2.1 device. The interface is in Spanish. On the left is a sidebar with navigation options: Estado, Red, WiFi, 2G WiFi, 5G WiFi, Confi. Avanzada, Temporiz. WiFi desactivado, Administración, and Salir. The main content area is titled '5G WiFi' and contains four sections: 'Básico', 'VAP 1', 'VAP 2', and 'VAP 3'. Each section has a '¿Habilitado?' toggle, a '¿Ocultas tu SSID?' toggle, an 'SSID' field, an 'Ancho de banda' dropdown, a 'Canal' dropdown, an 'Encriptación' dropdown, and a 'Contraseña WiFi' field. The 'Básico' section also includes an 'Analizador WiFi' button. An 'Aplicar' button is at the bottom.

1. Basic: This is the main SSID that is issued, by default it is always enabled.
 - **Enable:** You can turn on or off 5G Wi-Fi broadcasting.
 - **Wifi Analyzer:** It allows us to see the networks that are broadcasting around us.
 - **SSID:** The name of the 5G Wi-Fi is configured.
 - **Hide your SSID:** Allows you to hide the SSID so that, even if it is emitting the SSID, it does not appear when doing a Wi-Fi search to make a connection.
 - **Channel:** Allows us to configure the width of the channel.
 - **Encryption:** It allows us to select the encryption mode or make it free if desired.
 - **Wifi Password:** Allows us to configure the password for the selected SSID.

2. VAP1, VAP2 and VAP3: These are different virtual SSIDs that can be activated depending on the needs. If we activate them we will have other SSIDs broadcasting on the same channel as the basic one, but with another password if desired.
 - o **Wi-Fi status:** You can turn on or off 5G Wi-Fi broadcasting
 - o **SSID:** The name of the 5G Wi-Fi is configured.
 - o **Hide your SSID:** Allows you to hide the SSID so that, even if it is emitting the SSID, it does not appear when doing a Wi-Fi search to make a connection.
 - o **Encryption:** It allows us to select the encryption mode or make it free if desired.
- Wifi Password: Allows us to configure the password for the selected SSID

Confi. Outpost.

In this section we can configure different advanced parameters that affect the Wifi of the computer. We have a brief description of the options in the TR itself, if we put the mouse over the



- **Country/Region:** It allows us to configure the country/region which modifies the channels on which the equipment broadcasts. The channels will depend on which one that country uses.
- **Maximum number of users:** Allows you to configure the maximum number of computers that will connect to the AP.
- **WLAN partition:** It is a security option that allows Wi-Fi terminals to be isolated in such a way that they cannot establish direct communication between SSIDs.
- **Short Guard Interval:** The Guard Interval (GI) is a parameter that regulates the time that elapses between two different symbols. It usually takes a value of 800ns, but can be reduced to 400ns. This optimization allows for speed gains in n and ac modes, although it may not be suitable in environments with a high level of interference
- **Coverage threshold:** It is a quality parameter on the power required of a terminal in reception in the AP, so that those users received with less power are automatically disassociated. The resulting effect is equivalent to limiting the range in distance and, consequently, that the connected terminals have a better performance service.

- **Fragmentation threshold:** This is the maximum value that packets will reach before being fragmented. The maximum value is 2346 (without fragmentation) and it is advisable to reduce it a little only if you experience problems accessing the medium or collisions.
- **RTS Threshold:** This is the packet size threshold above which the RTS/CTS mechanism is triggered. RTS (Send Request)/CTS (Ready to Send) is a mechanism to reduce collision between stations, but using RTS/CTS will add more overhead to the network; therefore, by default, the AP uses only RTS/CTS when transmitting a packet of 2347 bytes or greater. Thanks to this mechanism, we can minimize the number of collisions between hidden stations (end equipment that communicates only with the Wifi AP and does not communicate with other end equipment connected to the AP, as they are not within its range).
- **Output power:** Allows you to configure the power with which the equipment emits.
- **Dynamic Frequency Selection (DFS):** The DFS function is suitable for environments with nearby radars (e.g. ports or airports) where strong interference is generated. This function, when detecting an anomaly, analyzes the rest of the radio channels in 5GHz and, after a scan time, identifies and migrates communications to a new channel. Except in cases of proven need, it is generally recommended to deactivate it

Wifi: TempORIZ. Wifi.



This option allows you to select a time interval in which once the wifi is activated it will turn off.

Administration: Options.

In the following menus we will find different options to manage our EK team. To make the changes, you must press apply.

Configuration.



- **Download Backup:** We will back up the current access point settings.
- **Restore:** Allows us to upload a previously made backup.
- **Reset to default:** Allows us to return the computer to its default values.

Reboot.



- **Restart:** It allows us to restart the computer at the moment we hit it.
- **Scheduled restart:** Allows us to set up a scheduled restart.

Change password.



We can modify the previous password to access the computer. If we lose the modified password, we will have to perform a factory reset with its button and configure it again from 0.

Update.



It allows us to upload a new version of Firmware. You can find the latest versions on our <https://ek.plus/software/> page .

Note that we advise checking the 'Resume factory settings' option. This will leave the computer with the default values.

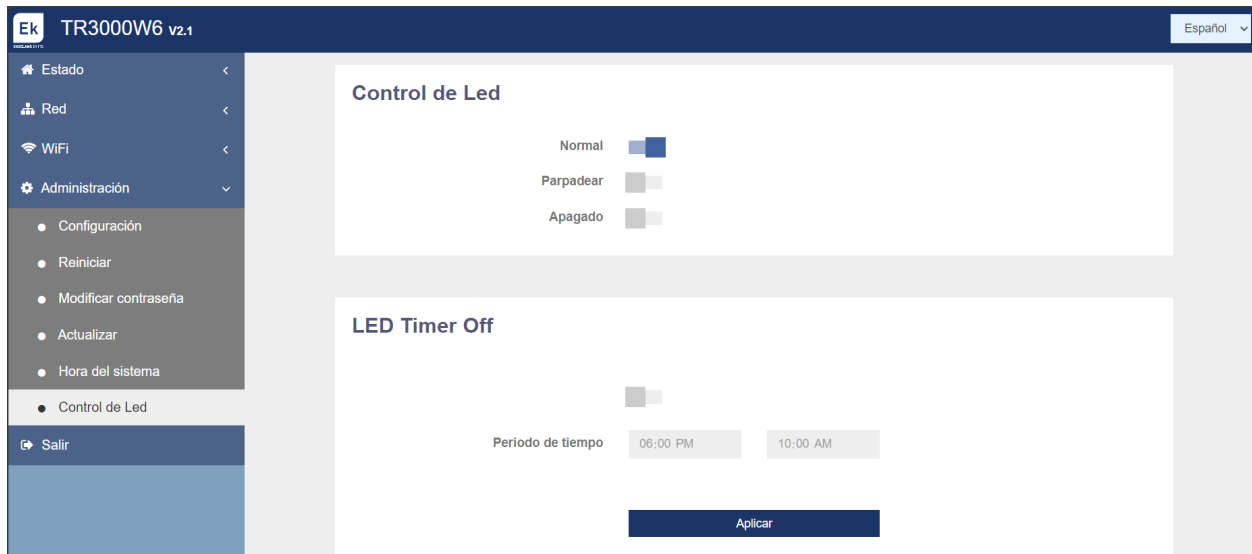
Time.



It allows us to set the time of the team. We have two possibilities:

- **Enable NTP:** Your computer will update its time automatically when you start up. **It is necessary that the computer has an IP configured within our network and a correct Gateway.**
- **If we disable NTP:** It will allow us to synchronize the time with our PC.

Led Control.



- **LED Control:** Allows you to select the behavior of the LED in the device.
 - **Normal:** The LED remains on while the device is operational.
 - **Flashing:** The LED flashes flashing as a visual indication.
 - **Off:** The LED is off and does not emit light.
- **LED Timer Off:** Allows you to program a specific period of time during which the LED will be off.