

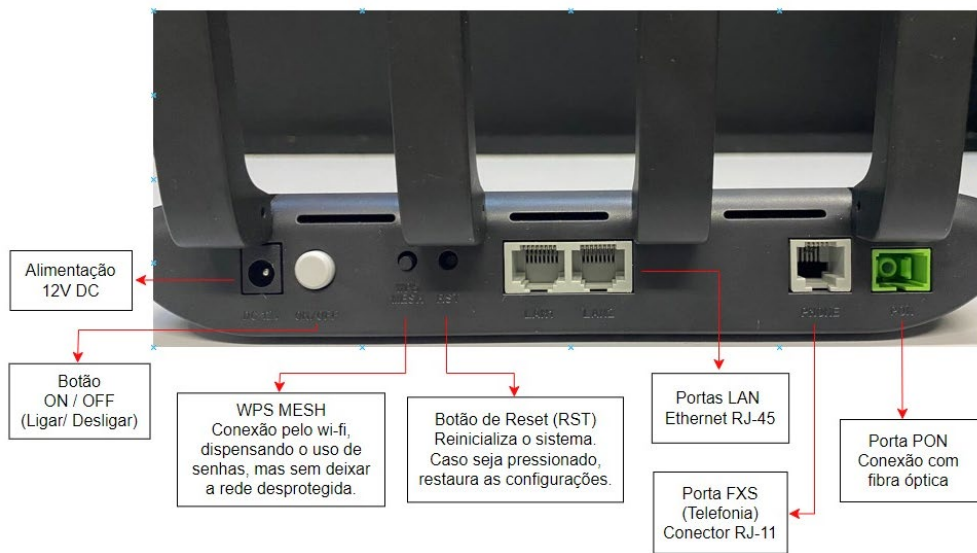
# Guia de Configuração

## ONT TK-ONU-2P-D (P)

### Atenção aos cuidados com a ONT TK-ONU-2P-D (P)

- ✓ Mantenha os equipamentos ópticos limpos e calibrados;
- ✓ Utilize sempre que precisar a caneta de limpeza óptica, para obter o melhor funcionamento do equipamento;
- ✓ Usuário e senha administrador: Login: tkth Senha: tkth.

## 1. Apresentação DA ONU



## 2. Especificação Técnica

ITEM		PARÂMETROS
Interface	Interface porta óptica xPON (EPON / GPON):	Conector SC/APC (Padrão) ou SC/UPC
		GPON: G.984.x Standard
		EPON: PX20+ Symmetric;
		GPON: 2.5Gbps/1.25Gbps downstream/upstream
		EPON: 1.25Gbps downstream/upstream
		Comprimento de Onda: Tx 1310nm / Rx 1490nm
		Sensibilidade do Receptor: GPON -28dBm / EPON -28dBm
	Potência Saturada: GPON -8dBm / EPON -15dBm	
	Potência de Transmissão: GPON 1-5dBm / EPON 0-5dBm	
	Interface FXS para telefonia:	01 Conector Rj11
	Conexão de rede (Ethernet)	Distância Máx 1000m (1,0km)
		Balanced Ring, 50V RMS
		02 Portas 10/100/1000M (negociação automática)
Modo Duplex (Full/Half)		
Fonte de alimentação	02 portas LAN Ethernet RJ-45	
	Auto MDI/MDI-X	
	Distância máx 100m (0,1km)	
	Entrada para fonte 12VDC/1A	
	Consumo aproximado: < 8W	

### 3. Criando conexões

Note que alterando o tipo de conexão na opção “Type”, os menus de configuração também são alterados

The image displays three screenshots of the WAN connection configuration interface, illustrating how the configuration options change based on the selected connection type. In each screenshot, the 'Type' dropdown menu is highlighted with a red box.

- Static:** The 'Type' is set to 'Static'. The configuration options include 'IP Version' (IPv4), 'Connection Name' (Create WAN Connection), 'Port Binding' (LAN1, LAN2, LAN3, LAN4), 'SSIDs' (SSID1-4), 'Enable DHCP Server' (checked), 'Enable NAT' (checked), 'Service List' (INTERNET), 'VLAN Type' (UnTag), 'Enable DSCP' (unchecked), 'DSCP' (input field), 'MTU' (1492), and a red-bordered box containing 'IP Address', 'Subnet Mask', 'Default Gateway', 'DNS1', 'DNS2', and 'DNS3' fields.
- DHCP:** The 'Type' is set to 'DHCP'. The configuration options include 'IP Version' (IPv4), 'Connection Name' (Create WAN Connection), 'Port Binding' (LAN1, LAN2, LAN3, LAN4), 'SSIDs' (SSID1-4), 'Enable DHCP Server' (checked), 'Enable NAT' (checked), 'Service List' (INTERNET), 'VLAN Type' (UnTag), 'Enable DSCP' (unchecked), 'DSCP' (input field), and 'MTU' (1492).
- Bridge:** The 'Type' is set to 'Bridge'. The configuration options include 'IP Version' (IPv4), 'Connection Name' (Create WAN Connection), 'Port Binding' (LAN1, LAN2, LAN3, LAN4), 'SSIDs' (SSID1-4), 'Enable DHCP Server' (unchecked), 'Service List' (INTERNET), 'VLAN Type' (UnTag), 'Enable DSCP' (unchecked), and 'DSCP' (input field).

Obs: Após criada a conexão, somente alguns parâmetros podem ser alterados. Caso não sonsiga alterar o parâmetro desejado, deverá excluir a conexão e criá-la novamente.

- **IP Version:** É possível se escolher qual protocolo será utilizado na conexão: IPv4, IPv6 ou IPv4/v6;
- **Type:** É selecionado o tipo de conexão: PPPoE, DHCP, Static ou Bridge;
- **Port Binding:** são escolhidas quais portas e/ou SSIDs fazem parte desta conexão.
- **Enable DHCP Server:** Habilita ou desabilita o servidor DHCP da ONU na conexão.
- **Enable NAT:** Habilita ou desabilita o NAT na conexão;
- **Service List:** Selecione quais as finalidades da conexão (Só internet, internet e voz, internet e gerência que no caso é o TR069, etc);
- **VLAN Type:** são escolhidas quais portas e/ou SSIDs fazem parte desta conexão;
- **Enable DSCP:** Habilita o DSCP na conexão. “DSCP”: Caso a opção “Enable DSCP” esteja habilitada, sete o valor neste local.
- **MTU:** É o MTU da conexão, o padrão é 1492;
- **Username e Password:** Em caso de seleção de uma conexão PPPoE, esta opção aparece, e deve ser preenchida com as credenciais do cliente;
- **Enable PPPoE Proxy:** Habilita o proxy na conexão PPPoE;
- **Enable Pass Through:** Habilita o Pass Through na conexão;
- **Authentication Type:** Selecione o tipo de autenticação da conexão.
- **Connection Trigger:** Selecione o tipo de solicitação de conexão (recomendado sempre Auto).
- **Idle Timeout:** Caso a opção “On Demand” seja selecionada em “connection trigger”, esta opção é liberada para alteração do valor.

### 3.2. Configurando PPPoE IPv4

Em Network-> Wan Conenction

The screenshot shows the Think Technology web interface for configuring a WAN connection. The main configuration area includes the following fields and options:

- IP Version:** IPv4/v6
- Type:** PPP
- Connection Name:** Create WAN Connection
- Port Binding:** LAN1, LAN2
- SSID Selection:** SSID1, SSID2, SSID3, SSID4, SSID5, SSID6, SSID7, SSID8
- Enable DHCP Server:**
- Enable NAT:**
- Service List:** INTERNET
- VLAN Type:** UnTag
- Enable DSCP:**
- DSCP:** [Empty field]
- MTU:** 1492
- Username:** pedro1
- Password:** [Masked with dots]
- Server Name:** [Empty field]
- Enable Pass Through:**
- Authentication Type:** Auto
- IPv6CP Extension Mode:**
- GUA From:** [Empty field]
- GateWay From:** [Empty field]
- DNSv6 From:** [Empty field]
- Prefix Delegation From:** [Empty field]

At the bottom of the page, there are two buttons: **Create** and **Cancel**.

- Em **Vlan type**: Configurar somente se trabalhar com Vlan;
- Em **IPv6CP**: configurar somente se trabalhar com o protocolo IPv6.

### 3.3. Configuração PPPoE IPv6

**IP Version** IPv4/v6  
**Type** PPP  
 Connection Name Create WAN Connection  
 Port Binding  LAN1  LAN2  LAN3  LAN4  
 SSID1  SSID2  SSID3  SSID4  
 SSID5  SSID6  SSID7  SSID8  
 Enable DHCP Server   
 Enable NAT   
**Service List** INTERNET  
**VLAN Type** Tag  
**VLAN ID** 1004  
 802.1p 0  
 Enable DSCP   
 DSCP  
 MTU 1492  
**Username** alpio  
**Password** \*\*\*\*\*  
 Server Name  
 Enable Pass Through   
 Authentication Type Auto  
 IPv6CP Extension Mode   
**GUA From** SLAAC  
**GateWay From** SLAAC  
**DNSv6 From** DHCPv6  
**Prefix Delegation From** DHCPv6

Para verificar se a conexão foi criada corretamente, na aba **Status-> Network Information**

Device Information	Network Information
Type: PPPoE	PPP: 2_INTERNET_R_VID_1004
Connection Name: 3_INTERNET_R_VID_...	GUA From: SLAAC
NAT: Enabled	GUA: 2804:2284:cada:2a80:564b:54ff:fe1e:7e69/64
IP: 192.168.201.251	DNSv6 From: DHCPv6
DNS1: 8.8.8.8	DNS1: 2804:2284:cada:2a00:92e2:baff:fe84:f3f1
DNS2: 8.8.4.4	DNS2: ::
DNS3: 0.0.0.0	DNS3: ::
WAN MAC: 54:4B:54:15:35:89	WAN MAC: 54:4B:54:1E:7E:69
Gateway: 192.168.201.1	Prefix Delegation From: DHCPv6
Connection Status: Connected	Host Trigger GateWay From: 2804:2284:cada:2a40::/64
Disconnect Reason	GateWay From: SLAAC
Online Duration: 5582 sec	Gateway: fe80::f0:46
	Connection Status: Connected

## 4. Configurando o Wifi

### 4.2. Configurando Wifi 2.4Ghz

Em Network->WLAN, alterar o nome do Wifi.

The screenshot shows the configuration interface for WLAN. The left sidebar has a menu with 'WLAN' and 'SSID Settings' highlighted in red. The main content area shows the following settings:

- Note: SSID1~4: WLAN2.4G, SSID5~8: WLAN5G.
- Choose SSID: SSID1
- Broadcast Disable:
- SSIDEnable:
- Maximum Clients: 32 (1 ~ 32)
- SSID Name: TROQUE-ME (1 ~ 32 Char)

At the bottom right, the 'Submit' button is highlighted in red.

- Ao alterar o nome do Wifi, não utilize espaços, pode substituir por caracteres especiais.

### 4.3. Alterar a senha do Wifi 2.4Ghz

The screenshot shows the configuration interface for WLAN Security. The left sidebar has a menu with 'Network' and 'Security' highlighted in red. The main content area shows the following settings:

- Note: SSID1~4: WLAN2.4G, SSID5~8: WLAN5G.
- Choose SSID: SSID1
- Authentication Type: WPA2-PSK
- WPA Passphrase: [Redacted] (8 ~ 63 characters)
- Password Strength: [Progress indicator]
- WPA Encryption Algorithm: AES

At the bottom right, the 'Submit' button is highlighted in red.

#### 4.4. Configurando Wifi 5Ghz

Status | Network | Security | Application | Administration | Maintenance | Help

WAN  
 Binding  
 LAN Address Setting  
 Prefix Management  
 WLAN  
   Basic  
   **SSID Settings**  
   Security  
   EasyMesh  
 Remote Management  
 QoS  
 SNTP  
 Routing

Note: SSID1~4: WLAN2.4G, SSID5~8: WLAN5G.

Choose SSID **SSID5**

Broadcast Disable

SSIDEnable

Maximum Clients  (1 ~ 32)

SSID Name  (1 ~ 32 Char)

Help  
Logout

Submit Cancel

#### 4.5. Alterando a senha Wifi 5Ghz

Status | Network | Security | Application | Administration | Maintenance | Help

WAN  
 Binding  
 LAN Address Setting  
 Prefix Management  
**WLAN**  
   Basic  
   SSID Settings  
   **Security**  
   EasyMesh  
 Remote Management  
 QoS  
 SNTP  
 Routing

Note: SSID1~4: WLAN2.4G, SSID5~8: WLAN5G.

Choose SSID **SSID5**

Authentication Type **WPA/WPA2-PSK**

WPA Passphrase  (8 ~ 63 characters)

Password Strength ■ ■ ■

WPA Encryption Algorithm **TKIP+AES**

Help  
Logout

Submit Cancel

## 5. Habilitar acesso remoto

Em Security-> Service Control

Enable

Ingress: 3\_INTERNET\_R\_VID\_

Start Source IP Address:

End Source IP Address:

Mode: Permit

Service List:  HTTP,  FTP,  TELNET,  HTTPS

Add

Enable	Ingress	Start Source IP Address	End Source IP Address	Mode	Service List	Modify/Delete
✓	WAN			Discard	TELNET	
✓	3_INTERNET			Permit	HTTP,HTTPS	

Note: If you need to configure the above remote access ports, please click on the hyperlinks below.  
[Modify Remote Access Port](#) Para alterar a porta de acesso WEB

### 5.1. Alterando a porta de acesso

Remote access ports can not be set equal to the default port value, port 0 indicates to use default port.

Service: WEB

Port: 8080 (0 ~ 65535)

Modify Cancel

Service	Port	Modify
HTTP	8080	
FTP	0	
TELNET	0	
HTTPS	0	

Back



## 6. Configuração do VoIP

Em Application-> SIP, configurar o server

The screenshot shows the 'Application' tab selected in the top navigation bar. In the left sidebar, 'Voip Settings' is expanded, and 'SIP' is highlighted. The main configuration area includes the following fields:

- Enable:
- Sip Protocol: Soft Switching
- Select Region: Brazil
- Local Port: 5060 (0 ~ 65535)
- Primary Register Server: 10.5.50.30
- Primary Proxy Server: 0.0.0.0
- Primary Outbound Proxy Server: 0.0.0.0
- Primary Proxy Port: 5060 (0 ~ 65535)
- Secondary Register Server: 0.0.0.0
- Secondary Proxy Server: 0.0.0.0
- Secondary Outbound Proxy Server: 0.0.0.0
- Secondary Proxy Port: 5060 (0 ~ 65535)
- Register Expires: 3600 sec
- Unregister On Reboot:
- Enable Link Test:
- Link Test Interval: 60 sec
- Enable # Escaping:
- Register Retry Interval: 60 sec
- Enable session update period:
- Session update period: 30 Minutes
- Subscription switch: Disable

Buttons for 'Help' and 'Logout' are visible in the top right. At the bottom, there are 'Submit' and 'Cancel' buttons.

Em Application-> SIP Accounts, configurar usuário e senha.

The screenshot shows the 'SIP Accounts' configuration page. The 'SIP Accounts' option is selected in the left sidebar. The main configuration area includes the following fields:

- Enable:
- Sip Account: 99
- Password: [masked]
- Auth User name: [empty]

Buttons for 'Modify' and 'Cancel' are located below the input fields. In the top right, there are 'Help' and 'Logout' buttons. At the bottom, there is a table with the following data:

Enable	Sip Account	Auth User name	Modify
YES			

## 7. CONTROLE DE REVISÃO

REVISÃO	DESCRIÇÃO	DATA
00	CRIAÇÃO DO DOCUMENTO	21/09/2021