



FTTx PoE Solution

Wi-Tek presentation report of FTTx PoE Switch



Basic Concept of Wi-Tek FTTx PoE

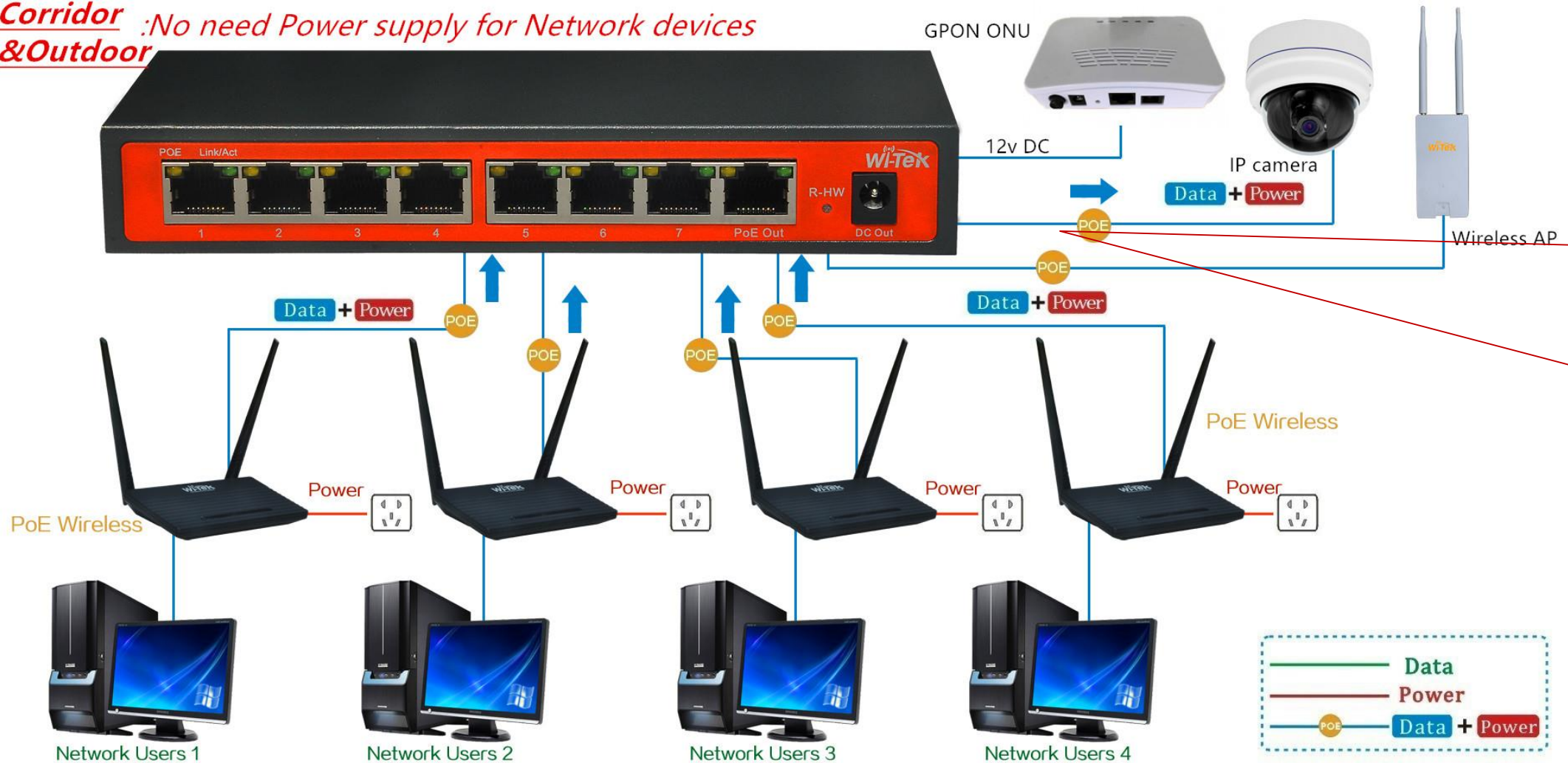
Wi-Tek FTTx PoE Switch has intelligent Power management feature solving a major problem of powering the device for ISPs. This kind PoE switch can be powered using Remote Power from customer end using specially designed Wi-Tek PoE WIFI router or any standard PoE Injector (24V DC, 0.75 AMP). This eliminates the need to arrange for power at building top and no UPS is needed / no money to be paid to society/power providing customer. This saves lot of MONEY for ISPs and improves service delivery with uninterrupted service to the customer.

Wi-Tek FTTx PoE Key Feature

- Solve Power Supply Issue for ISP outdoor or top of building
- Build cheap P2P FTTB Fiber network(WIFI to end user)
- Work with EPON/GPON ONU to do cheap FTTB solution

Functional theory of Wi-Tek FTTx PoE

Corridor & Outdoor : No need Power supply for Network devices



Notice the PoE transmit flow direction

HOME : borrow user's electric to supply your ISP network



Functional theory of Wi-Tek FTTx PoE

1. As above diagram show Wi-Tek FTTx PoE Switch has some PoE INPUT ports, and 1-2 PoE OUTPUT, and sometime has 1*DC output 9-12v and 2SFP fiber port for Backhaul
2. PoE INPUT ports usually can accept 24 or 48v PoE energy from PoE Router or PoE Injector at end user home(that mean you borrow end user home electricity to feed your ISP system)
3. PoE OUTPUT port usually can power up your ISP system device like GPON ONU, Wireless AP/CPE, CCTV Camera
4. The fantastic thing is that even only one PoE INPUT get 24V power from end user, it will power up FTTx PoE switch itself, and continue to power up your ONU/Wireless AP via PoE OUTPUT port;(that mean any one user in the building want to get access internet, your ISP system will wake up) and if all PoE INPUT port get 24V power from end user, it will not burn any device;
5. DC output usually power up Huawei and ZTE ONU or your CCTV camera via 9-12V
6. SFP fiber Backhaul port can used if you want to deploy a long range transmit outdoor

Outdoor FTTx PoE for P2P Fiber network

**WI-TEK Outdoor FTTH PoE Solution
not only for Fiber, but WIFI**

16SFP+8GE Fiber Switch



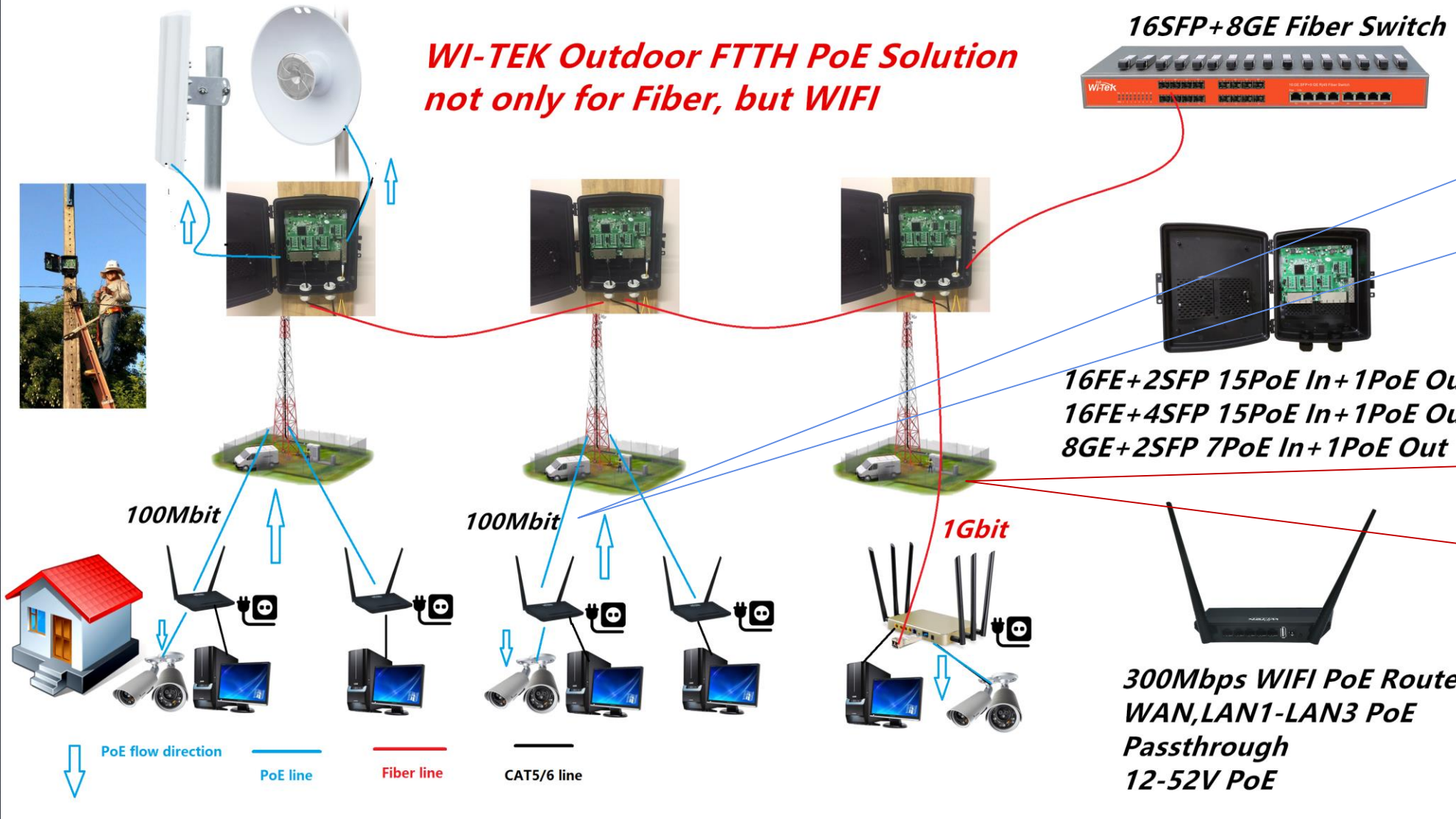
With WI-R1 can offer 100Mbit Speed to end user

**16FE+2SFP 15PoE In+1PoE Out
16FE+4SFP 15PoE In+1PoE Out
8GE+2SFP 7PoE In+1PoE Out**



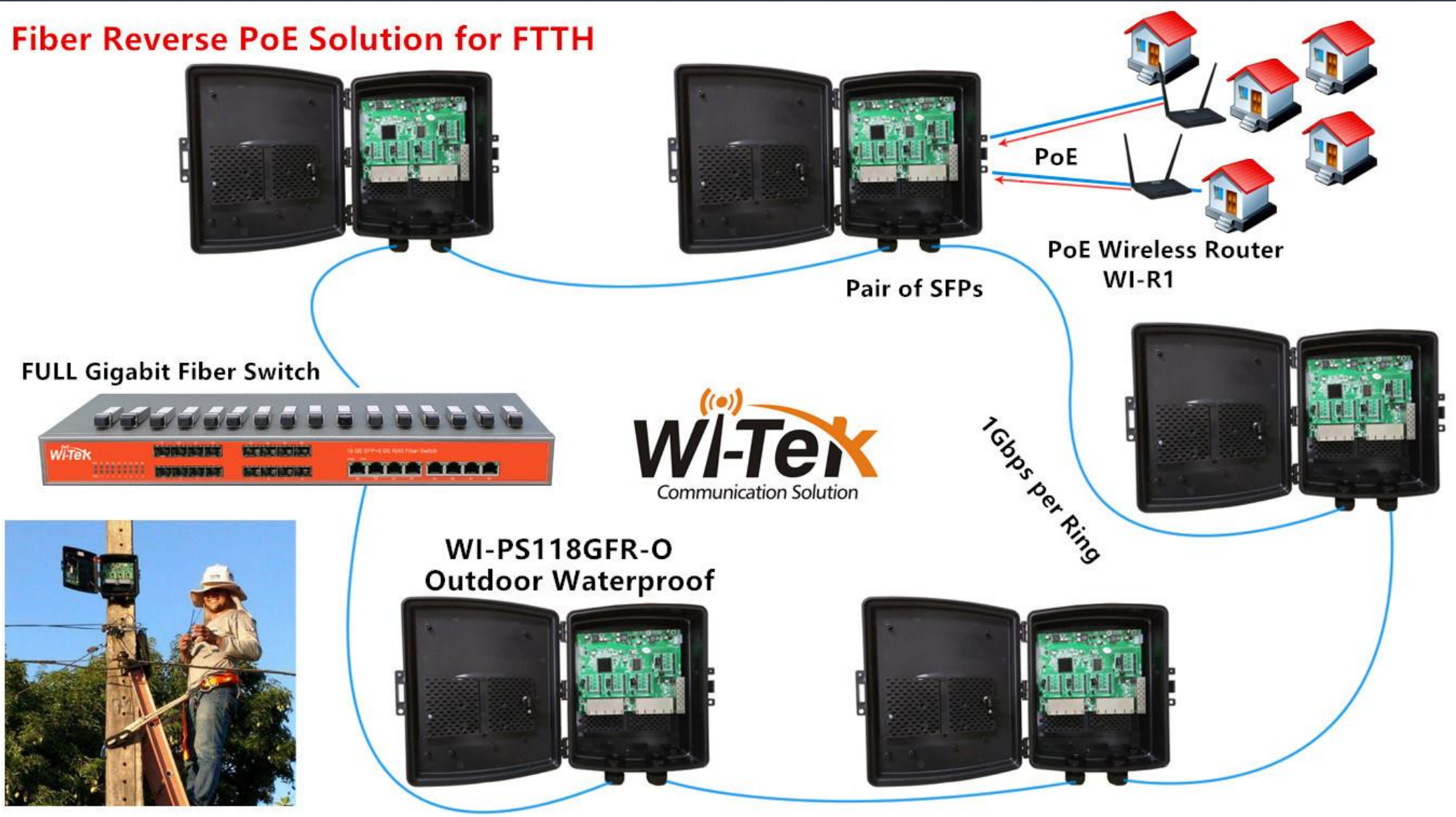
With WI-R2 can offer 1Gbit Speed to end user

**300Mbps WIFI PoE Router
WAN, LAN1-LAN3 PoE
Passthrough
12-52V PoE**



Outdoor FTTx PoE for P2P Fiber network

Fiber Reverse PoE Solution for FTTH



Outdoor FTTx PoE for P2P Fiber network

Central Switch:

WI-GS5024
16SFP+8GE Managed Fiber Switch

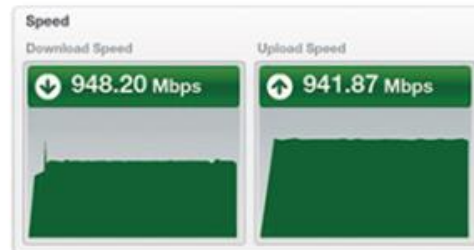


WI-R2

11AC 1200Mbps Gigabit SFP Fiber Gateway

- Wireless Speed up 11AC 1200Mbps
- 1SFP Fiber/1GE WAN+ 4GE LAN Ports
- WAN and LAN1 Ports support 24V PoE Pass-through

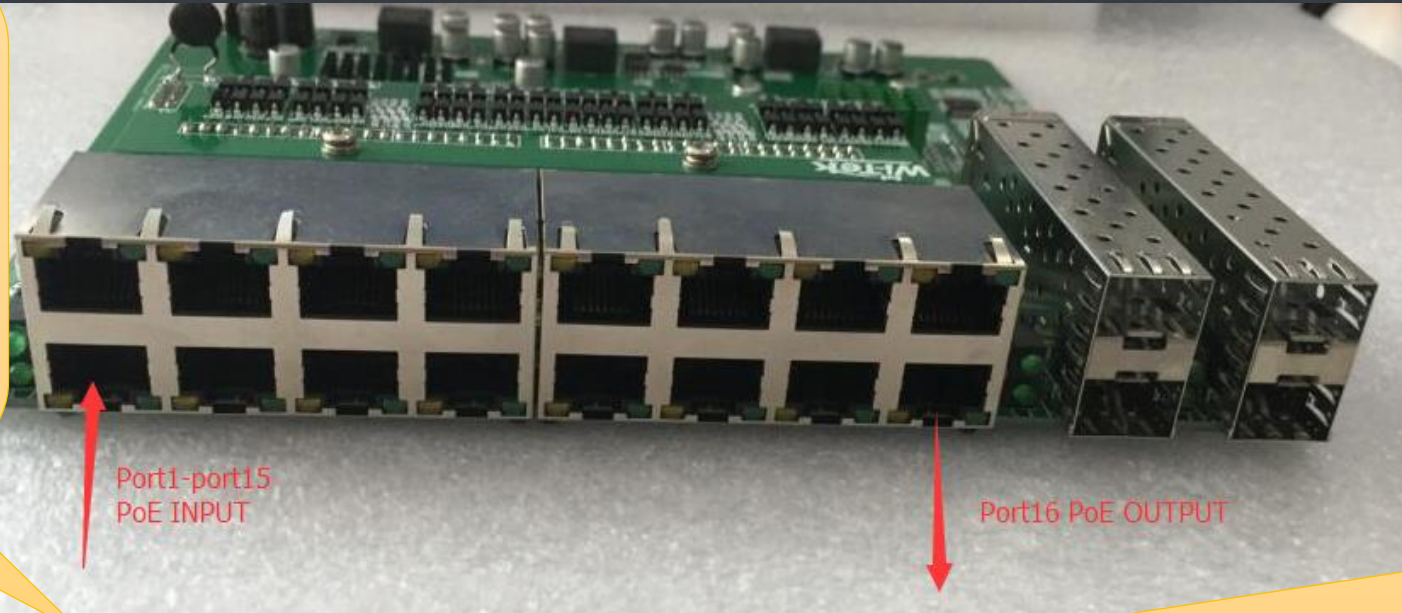
11C 1200Mbps WIFI Share
to end user



Dual-WAN design: SFP fiber WAN for FTTH; RJ45 gigabit WAN with PoE OUT

Wi-Tek FTTx PoE work with GPON ONU

Wi-Tek PoE Router's
PoE OUTPUT WAN
Port power up FTTx
PoE Switch via its PoE
INPUT port1-15

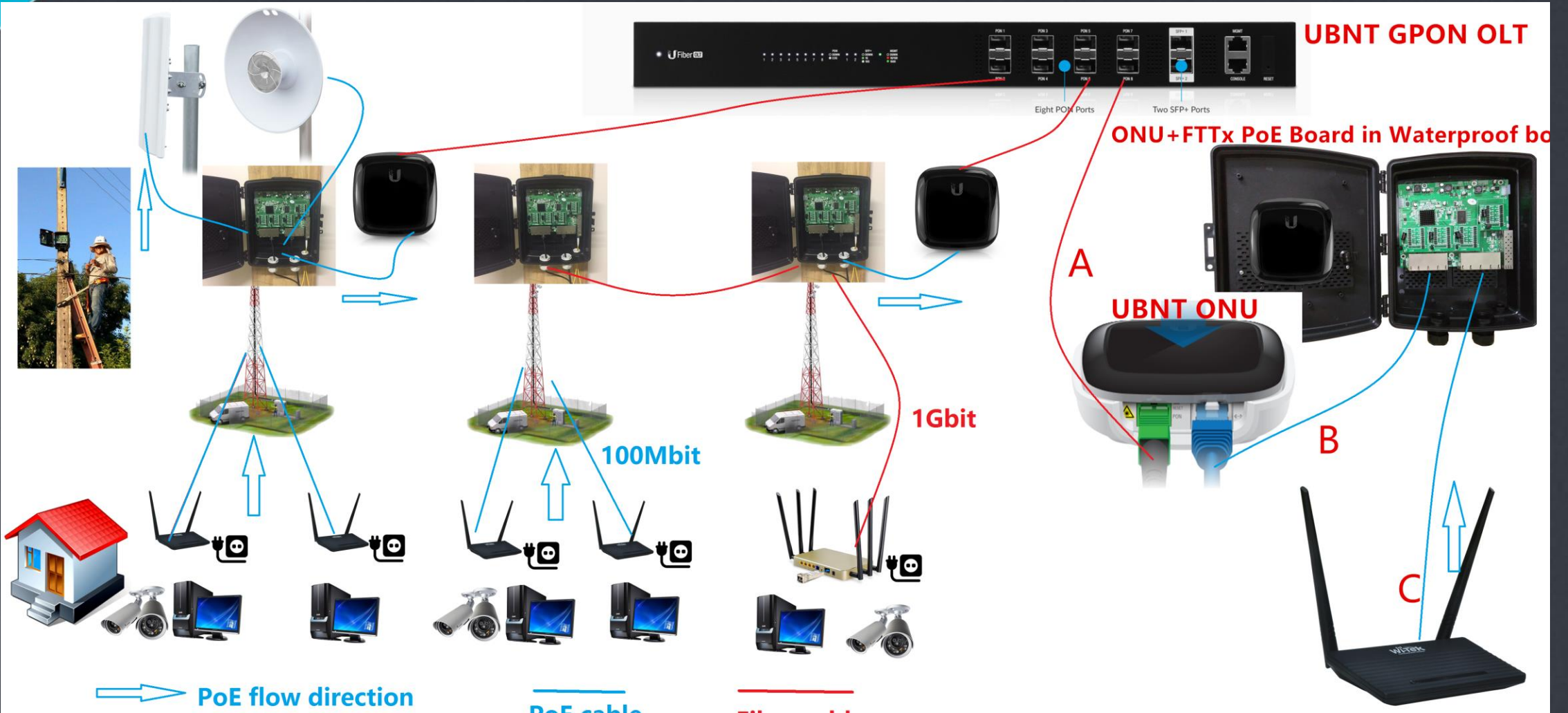


Wi-Tek FTTx PoE
Switch power up
UBNT/HUAWEI/ZT
E GPON ONU via
its PoE OUTPUT
port16 or DC
OUTPUT

PoE OUTPUT



Wi-Tek FTTx PoE work with UBNT GPPN Solution



➡ PoE flow direction

— PoE cable

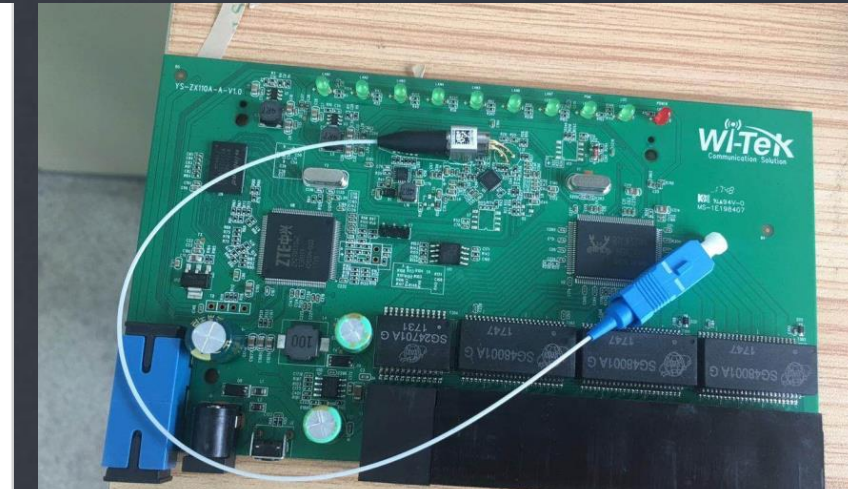
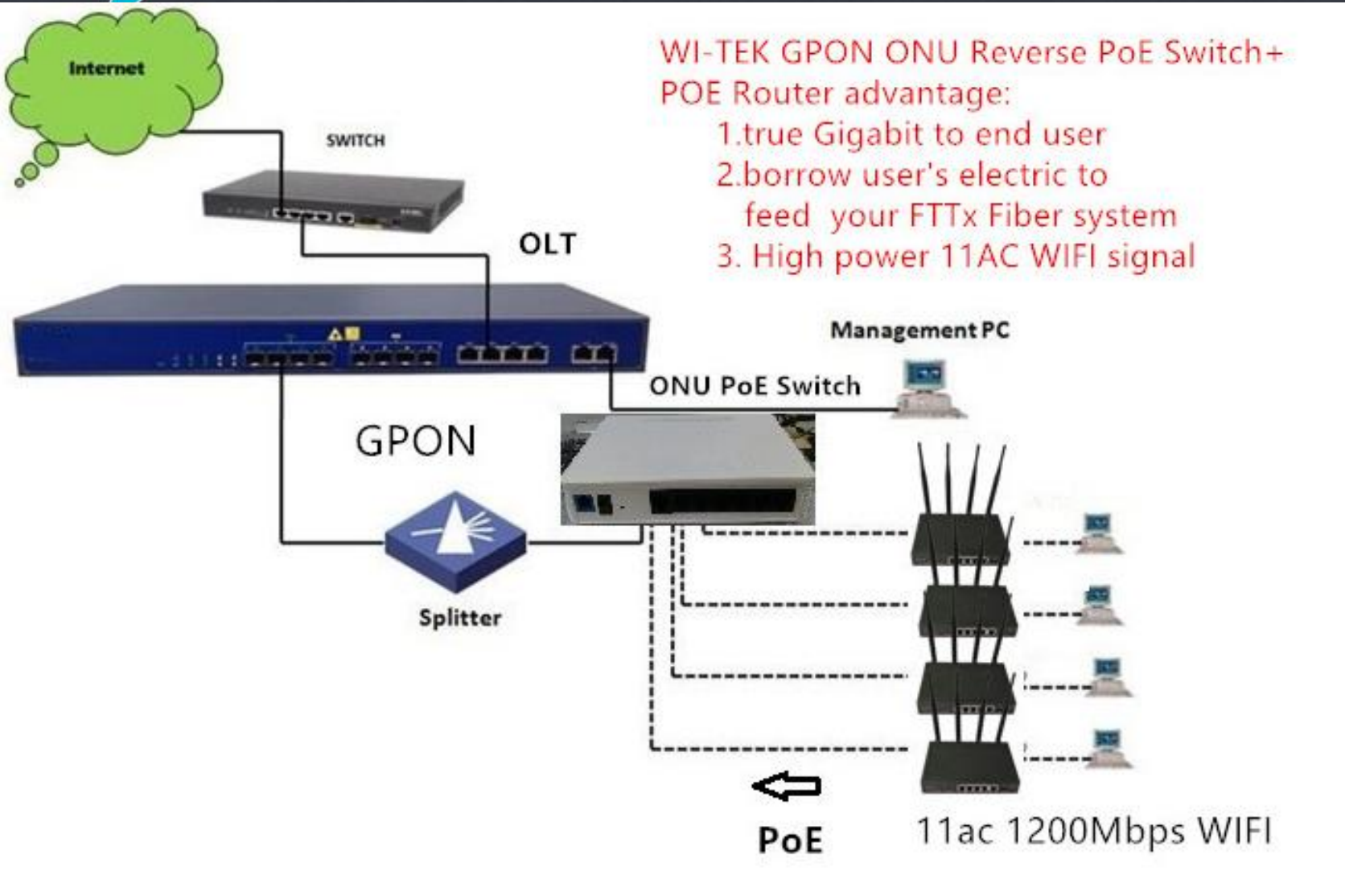
— Fiber cable

A:Fiber transmit from OLT to ONU

B:Wi-Tek FTTx PoE Switch transmit PoE+DATA to ONU

C:Wi-Tek FTTx PoE WIFI Router transmit PoE+DATA to FTTx PoE Swi

Wi-Tek GPON ONU with Reverse PoE





Wi-Tek GPON ONU with Reverse PoE








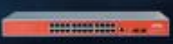




Highlights

- Compatibility with Huawei, ZTE, Fiberhome brand OLT ↵
- Plug and play, features auto-detecting, auto-configuration, and auto firmware upgrade, etc. ↵
- Support rich QinQ VLAN function and IGMP Snooping multicast feature. ↵
- Port1-7 for PoE In, Support 12-52V PoE ↵
- used user's electric to power up ONU in building ↵
- Integrated OAM remote configuration and maintenance function ↵

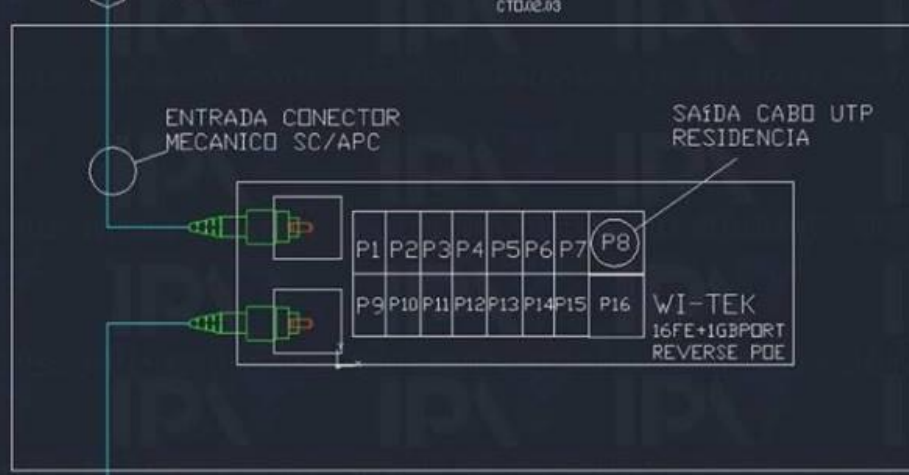
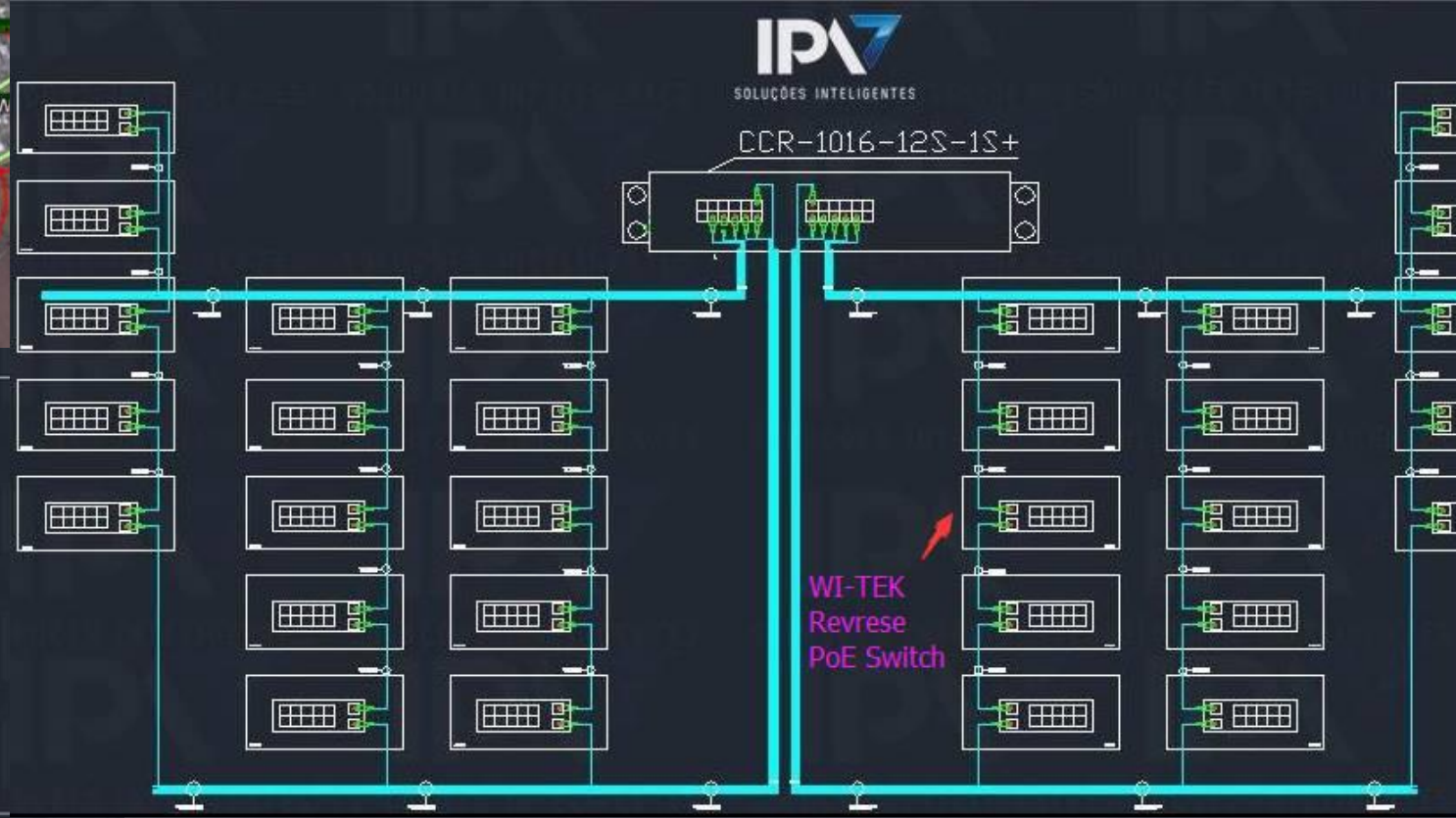




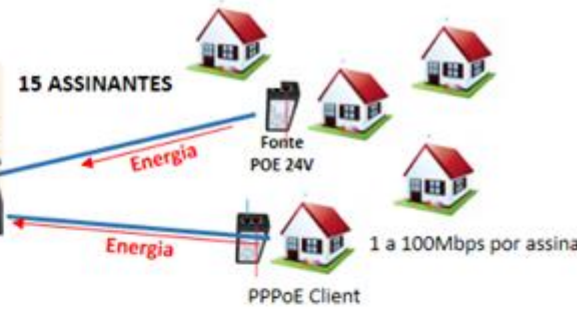
Wi-Tek FTTx PoE Switch product line

Product Specification						
	WI-PS108R	WI-PS118GFR	WI-PS118GR	WI-PS310GFR	WI-PS118GFR-O	WI-310GFR-O
Ports	8FE	16FE+2SFP	16FE+2GE	8GE+2SFP	16FE+2SFP	8GE+2SFP
PoE IN	7	15	15	7	15	7
PoE Out	1	1	1	1	1	1
Uplink Port		2SFP	2GE	2SFP	2SFP	2SFP
PoE PIN	4,5+ 7,8-	4,5+ 7,8-	4,5+ 7,8-	4,5+ 7,8-	4,5+ 7,8-	4,5+ 7,8-
Feature	Port VLAN	Port VLAN	Port VLAN	Port VLAN	Port VLAN	Port VLAN
					Outdoor Waterproof	Outdoor Waterproof
Product Specification						
	WI-PMS310GFR	WI-PMS318GFR	WI-PMS326GFR	WI-R1	WI-R2	WI-PS120GFR-O
Ports	8GE+2SFP	16GE+2SFP	24GE+2SFP	5FE+300Mbps WIFI	5GE+1SFP+ 1200Mbps WIFI	16FE+4SFP
PoE IN	7	15	23	4	1	15
PoE Out	1	1	1	4	1	1
Uplink Port	2SFP	2SFP	2GE	1FE	1GE+1SFP	4SFP
PoE PIN	4,5+ 7,8-	4,5+ 7,8-	4,5+ 7,8-	4,5+ 7,8-	4,5+ 7,8-	4,5+ 7,8-
Feature	RTSP, SNMP, QoS, QVLAN					Port VLAN
						Outdoor Waterproof

ISP customer Case



ISP customer Case



Varal em Fibra 500m a 20km conforme o SFP

1,25 Gbps por anel



PPPoE Server

Par de SFPs

Par de SFPs

Anel óptico com 05 caixas Xwave Metro
5 x 15 = 75 Assinantes
10 x 15 = 150 Assinantes
Spanning Tree no CCR
Equipamento Indicado - CCR1016-12S-1S+
Faz 06 anéis de 10 caixas 10x6x15 = 900
Assinantes + Uplink Elétrico

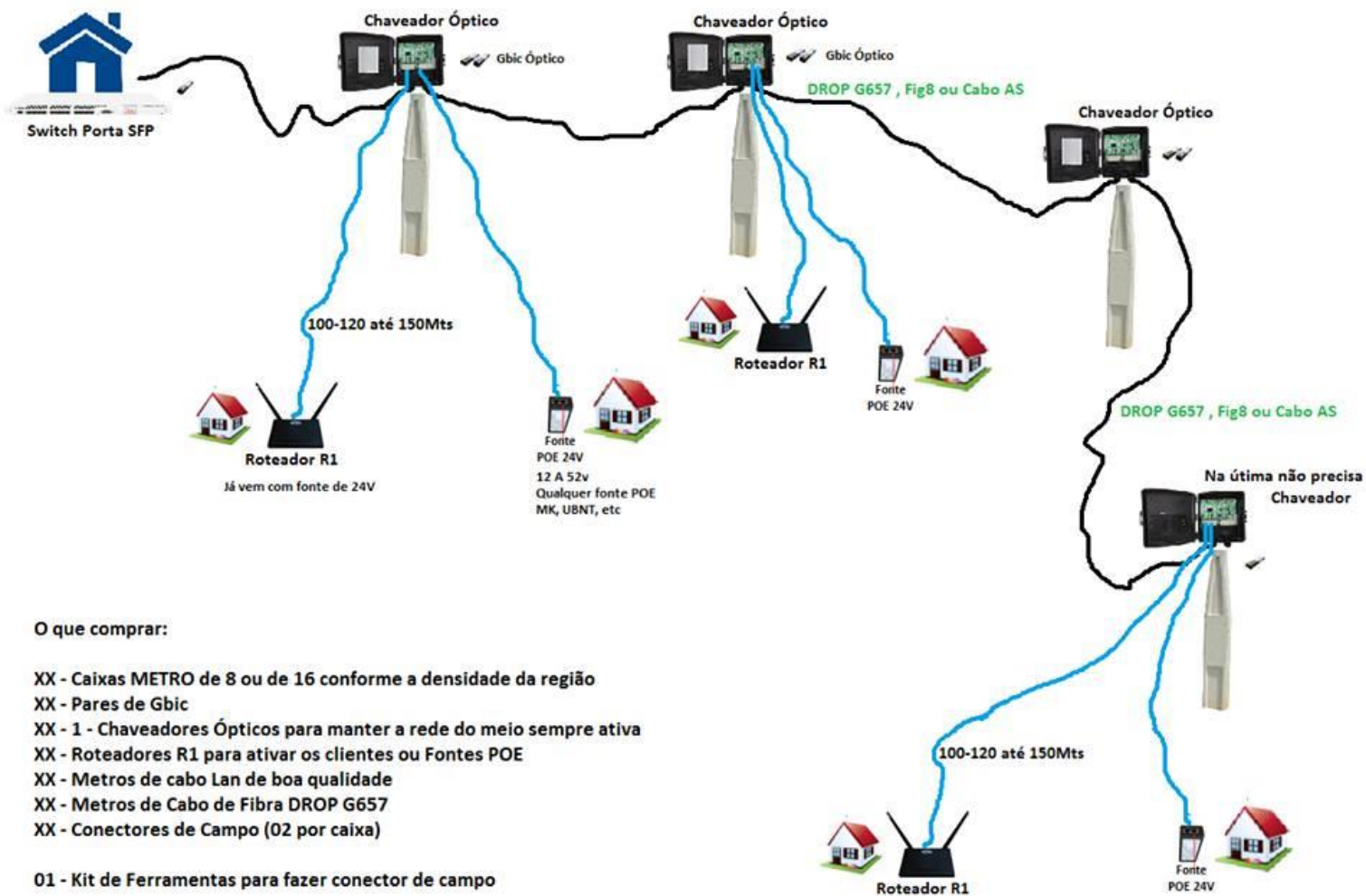


Par de SFPs



ISP customer Case

TOPOLOGIA EM ESPINHA COM DROP E CHAVEADORES





ISP customer Case



SFP Punto a punto Ethernet o simplemente METRO Ethernet.

La tecnología óptica más usada en el mundo

Se trata de una caja de conmutación con 15 puertos Cliente y retroalimentación de 12 V a 56 V en todos los puertos. Un puerto puente POE OUT Uplink y dos puertos SFP FIBRA, uno para entrada de la señal en fibra y otro para salida para la caja siguiente.



Topología en anillo de 03 a XXX cajas

RB 2011 o CCR → SFP-Caja METRO SFP → SFP-Caja METRO SFP → SFP-Caja METRO SFP → RB 2011 o CCR



SuperRedes

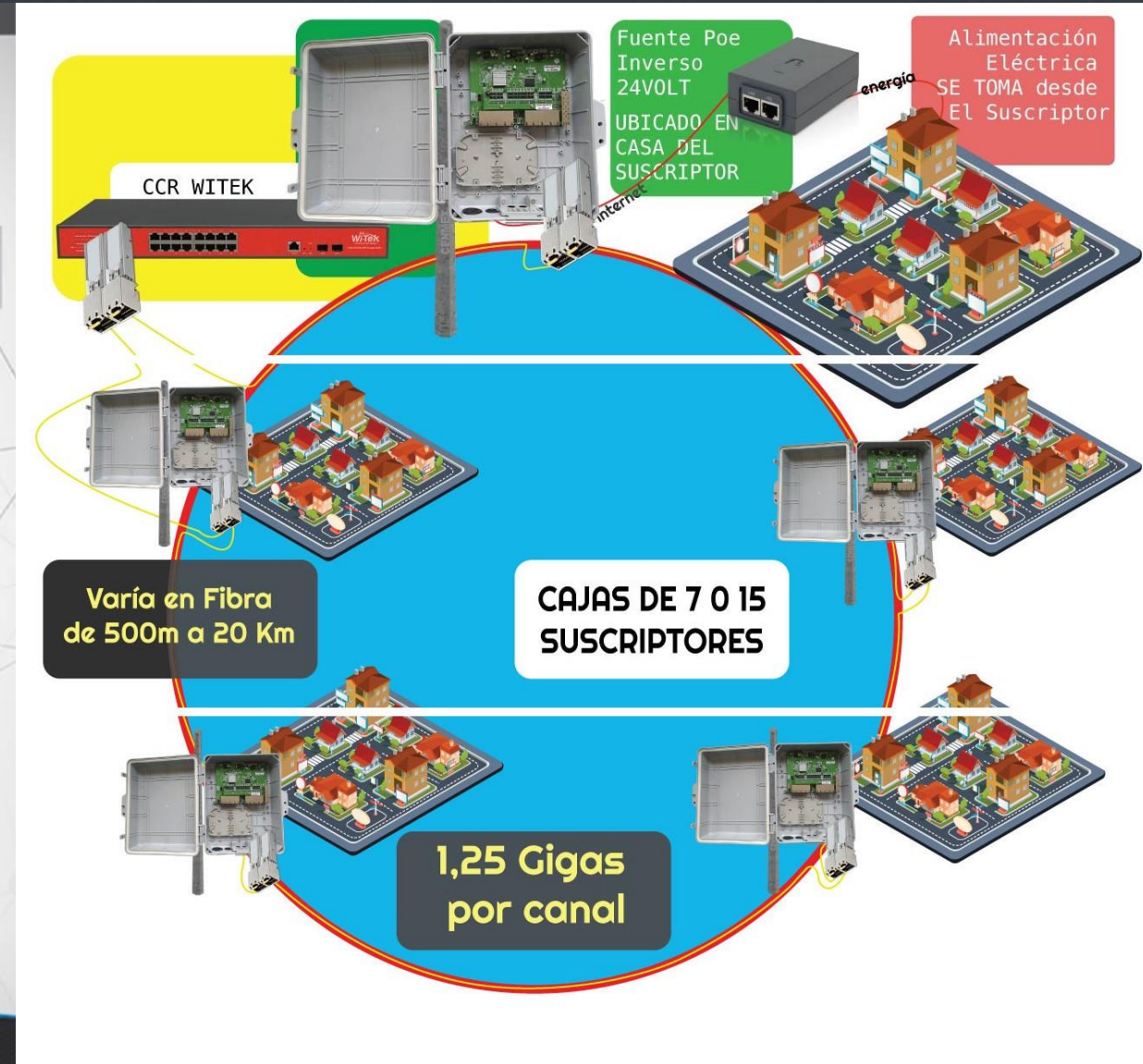
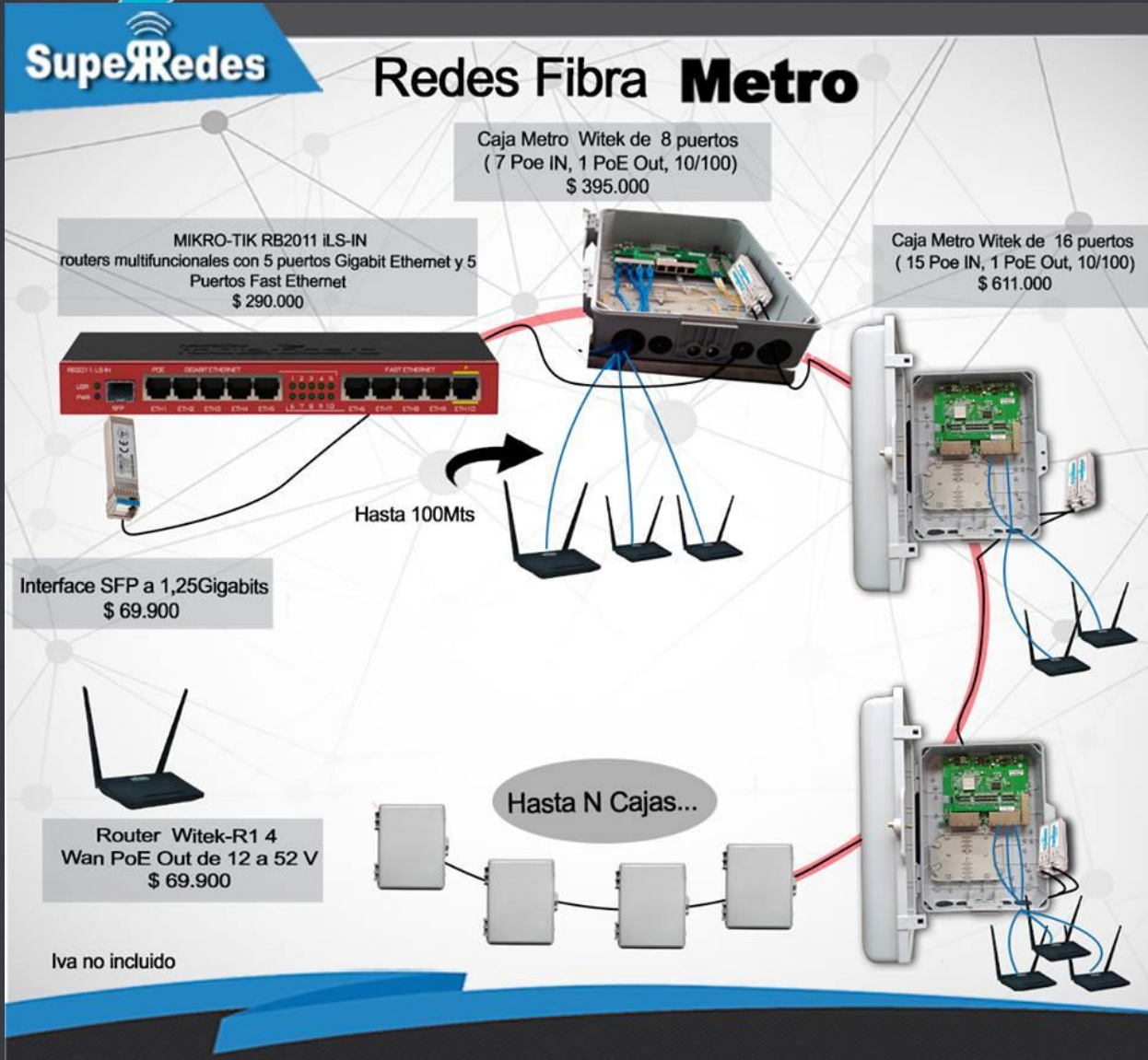
Proveedor exclusivo en Colombia



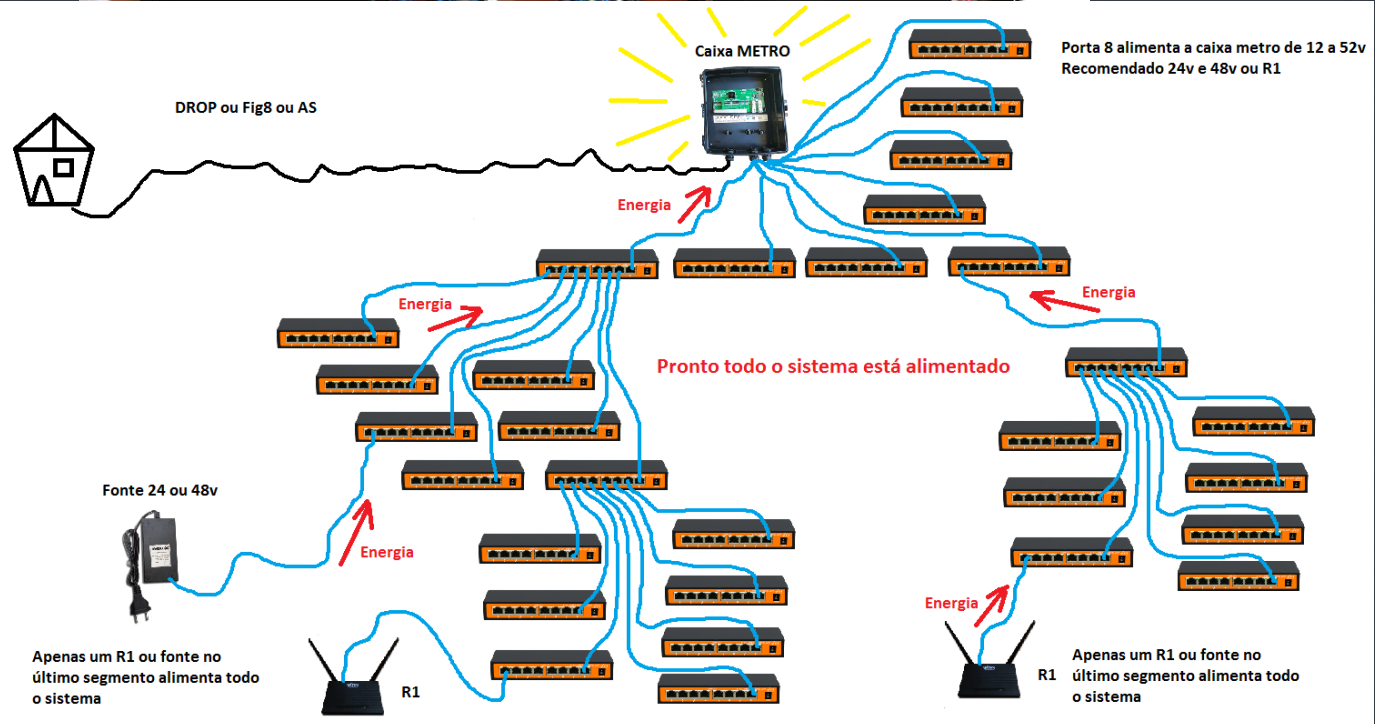
Wi-Tek
Communication Solution



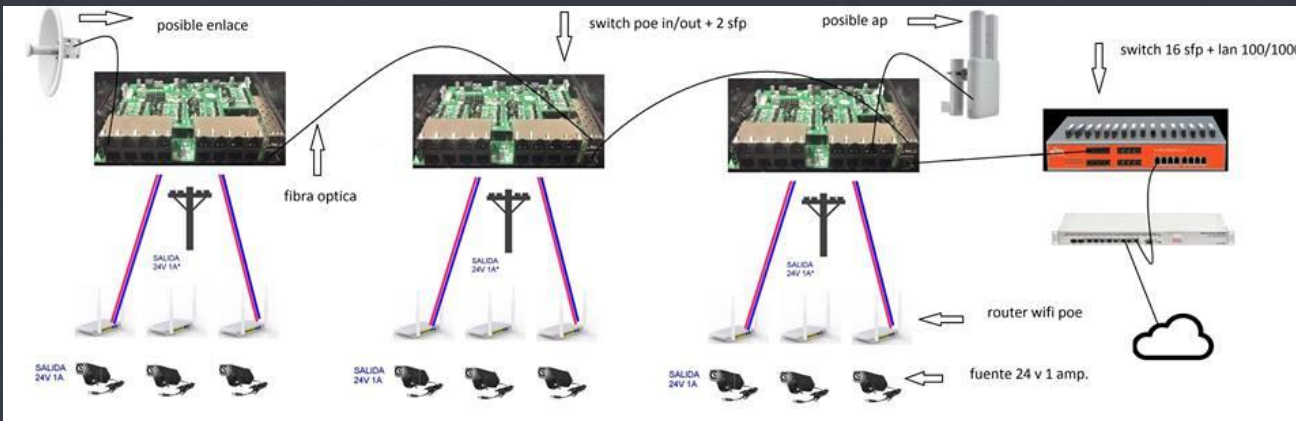
ISP customer Case



ISP customer Case



ISP customer Case



REVERSE POE FOR FTTH WI-TEK

EXCLUSIVO
\$1350



**PLACA DESMONTABLE
DE PROTECCIONES**

- PUERTOS ISOLADOS
- NO DHCP REVERSE

- 2 SALIDAS SFP
- 7 PORT POE IN
- 1 PORT POE OUT



COMUNICATE CON NUESTROS ASESORES DE VENTAS

PABLO@WIRELESSTIGRE.COM

PABLO CALDERÓN INT. 112

DAMIÁN@WIRELESSTIGRE.COM

DAMIÁN FERNÁNDEZ INT. 116

TELEFONOS
+ 54 9 011 4005 0277
11 5353 9208

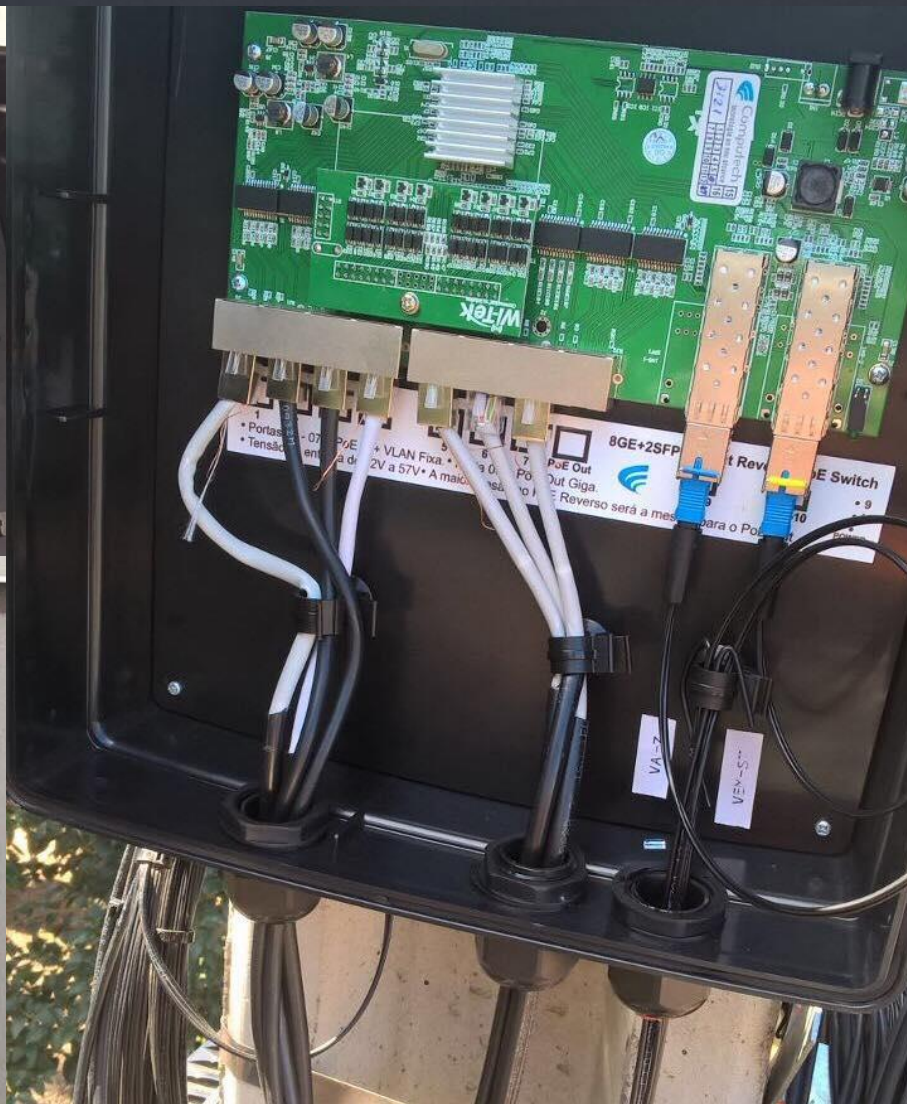
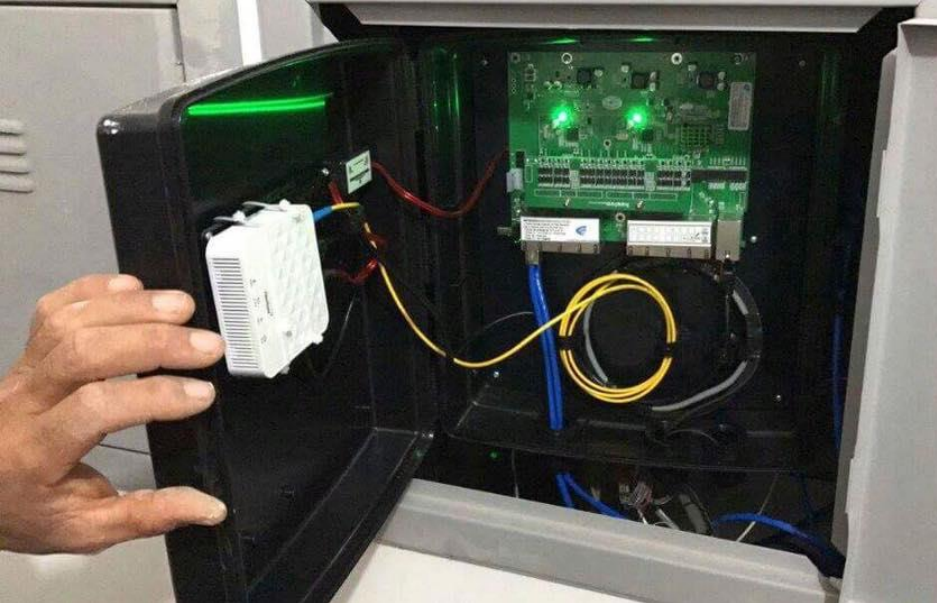
ISP customer Case



ISP customer Case



ISP customer Case





ISP customer Case



ISP customer Case

