



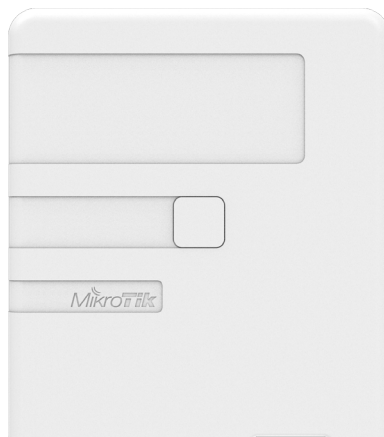
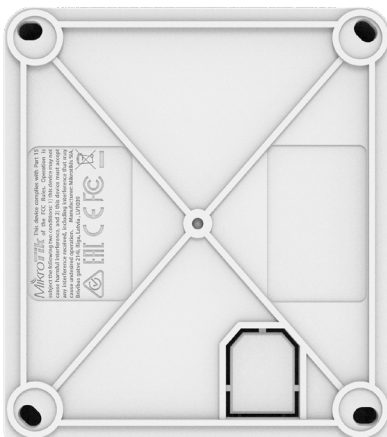
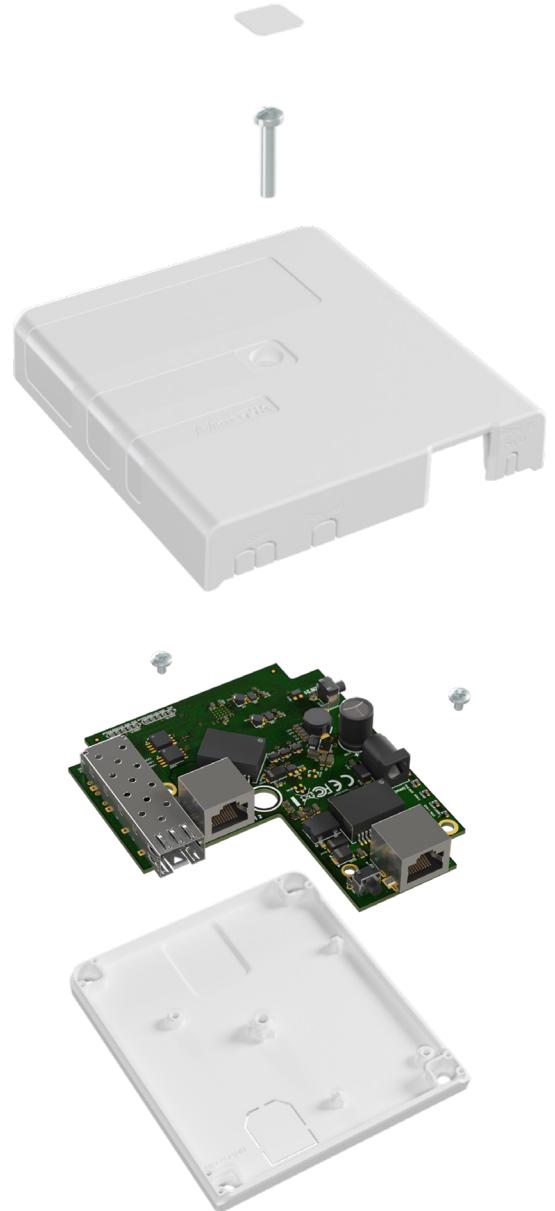
GPEN 21

Smart power injector that serves as an advanced software controlled repeater

The GPEN21 is a smart power injector that serves as an advanced software controlled repeater. Not only can it power your uplink devices via PoE, it can also provide a range of useful software features:

- Interface management and monitoring
- GPEN link fault detection
- VLAN support
- SNMP reporting
- Basic traffic shaping

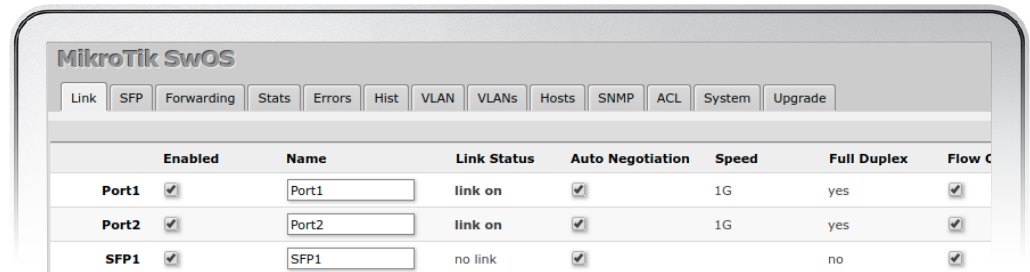
GPEN21 has an Ethernet and SFP port for fiber connectivity. Customers can choose to use GPEN21 to power optical module for uplink to provider, or to provide PoE to power Ethernet uplink to provider (that uses our GPeR and/or netPower products) The GPEN unit can be securely attached to a wall or the communications cabinet. The Ethernet cable can be routed either directly through its bottom cable opening or into the wall, as preferred.



It also has a designated space for an ISP sticker on the front. Sticker size: 66 x 25 mm (2,5 x 1 Inches).

GPEN21 software provides

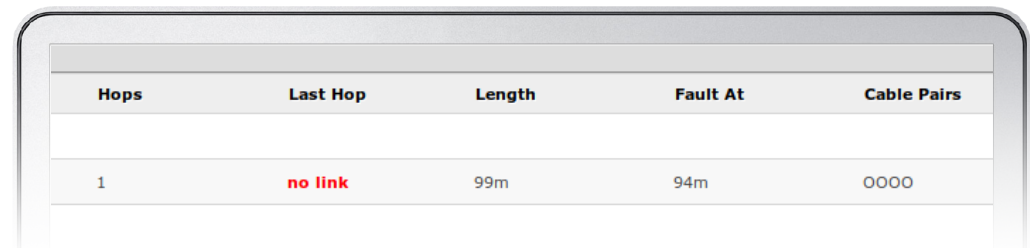
Interface
management and
monitoring



The screenshot shows the MikroTik SwOS interface for Link configuration. The 'Link' tab is selected. The table below shows the configuration for three ports: Port1, Port2, and SFP1.

	Enabled	Name	Link Status	Auto Negotiation	Speed	Full Duplex	Flow Control
Port1	☒	Port1	link on	☒	1G	yes	☒
Port2	☒	Port2	link on	☒	1G	yes	☒
SFP1	☒	SFP1	no link	☒		no	☒

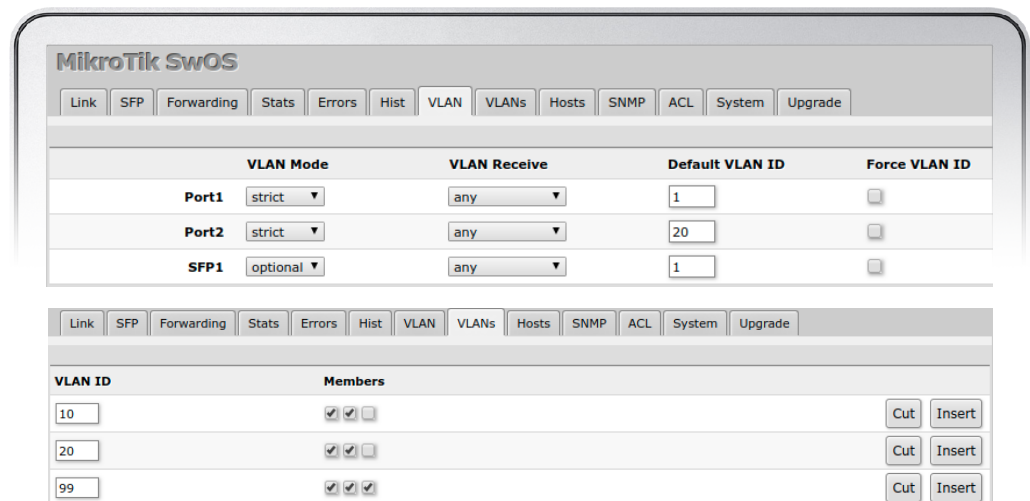
GPEN link fault
detection



The screenshot shows the MikroTik SwOS interface for Link fault detection. The table below shows the fault status for three ports: Port1, Port2, and SFP1.

Hops	Last Hop	Length	Fault At	Cable Pairs
1	no link	99m	94m	0000

VLAN support

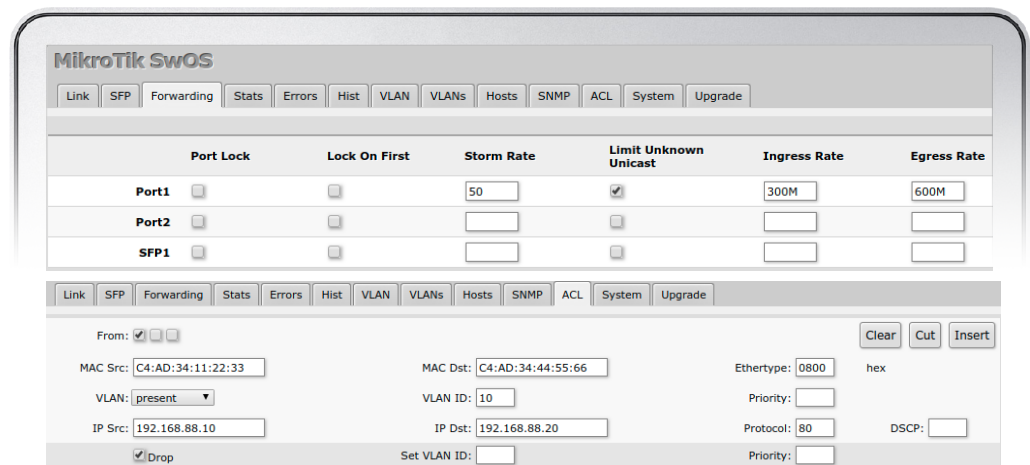


The screenshot shows the MikroTik SwOS interface for VLAN configuration. The 'VLAN' tab is selected. The table below shows the configuration for three ports: Port1, Port2, and SFP1.

	VLAN Mode	VLAN Receive	Default VLAN ID	Force VLAN ID
Port1	strict	any	1	☐
Port2	strict	any	20	☐
SFP1	optional	any	1	☐

VLAN ID	Members	Cut	Insert
10	☒ ☒ ☐	Cut	Insert
20	☒ ☒ ☐	Cut	Insert
99	☒ ☒ ☒	Cut	Insert

Basic traffic
shaping



The screenshot shows the MikroTik SwOS interface for Traffic Shaping. The 'Forwarding' tab is selected. The table below shows the configuration for three ports: Port1, Port2, and SFP1.

	Port Lock	Lock On First	Storm Rate	Limit Unknown Unicast	Ingress Rate	Egress Rate
Port1	☐	☐	50	☒	300M	600M
Port2	☐	☐		☐		
SFP1	☐	☐		☐		

From:	MAC Src:	MAC Dst:	Ethertype:	Priority:	Protocol:	DSCP:
☒ ☐ ☐	C4:AD:34:11:22:33	C4:AD:34:44:55:66	0800 hex		80	
VLAN: present	VLAN ID: 10	IP Src: 192.168.88.10	IP Dst: 192.168.88.20	Priority:		
☒ Drop	Set VLAN ID:					

Specifications

Product code	GPEN21
Number of 1G Ethernet ports	2
Number of 1G SFP ports	1
Number of DC inputs	2 (DC jack, PoE-in)
PoE-out	Yes, Passive PoE up to 57 V
PoE-in	802.3af/at
Supported input voltage	12 - 57 V
Dimensions	92 x 104 x 24 mm
Operating temperature	-20°C to +70°C tested

Included parts



Screw kit