

HALNY

High Availability Local Networks

by

FIBRAIN 



DEVELOPED IN POLAND

HALNy NETWORKS

Interoperable GPON solution

→ halny.com

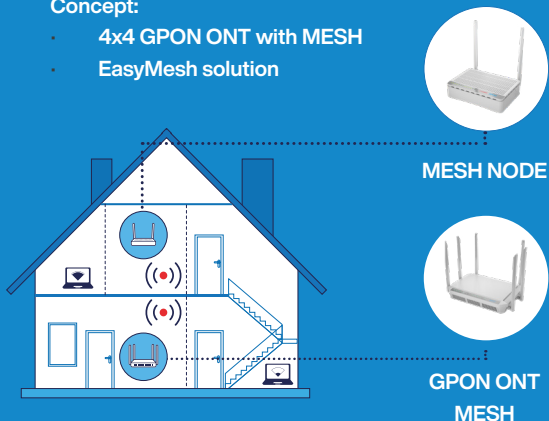
GPON and XGS-PON

- OPEN OLTS
- CUSTOMIZED CPES AND ONTS
- OPEN ONTS WITH ADAPTIVE OMC STACK
- PROVEN INTEROPERABILITY WITH 7 OLT VENDORS

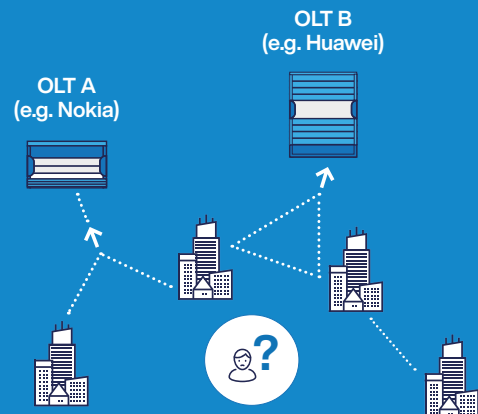
1 Mesh with GPON ONT

Concept:

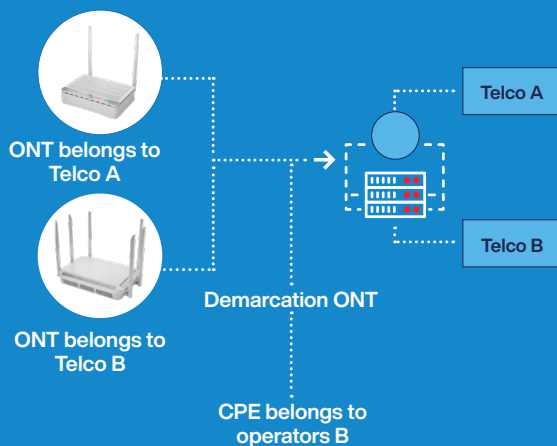
- 4x4 GPON ONT with MESH
- EasyMesh solution



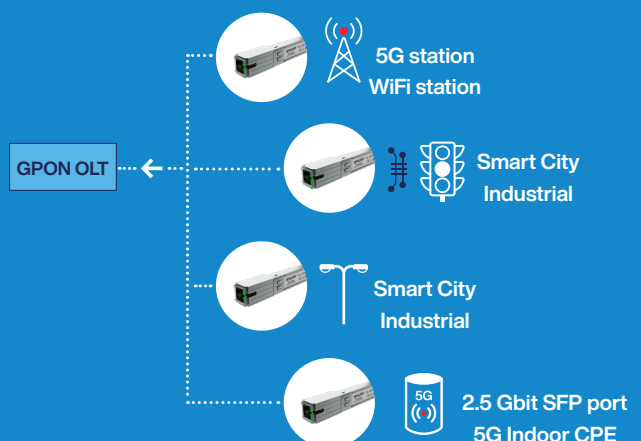
2 Advantages for IOP GPON ONTS



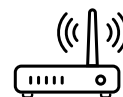
3 Fixed Broadband Sharing Infrastructure operator responsibility



4 HALNy HL-GSFP usage scenario



HALNy



ONT



HL-GSFP

GPON ONU SFP with 2.5Gb SFP port and embedded chipset



HL-1GE

GPON ONT with 1 Gigabit LAN port and SFU/HGU modes support



HL-1GC

GPON ONT C+ WITH 1 Gigabit LAN port and SFU/HGU mode support



HL-2BV

GPON ONT with 1x 2.5Gigabit LAN, 1x Gigabit LAN, 1x VoIP FXS port and SFU/HGU mode support



HL-1GR

GPON ONT with 1 Gigabit LAN port and RF port for CATV/DVB overlays



HL-4GMVR

GPON ONT with 4 Gigabit LAN ports, WI-FI 2x2 5Ghz and 2x2 2.4Ghz, 1 VoIP FXS port and RF port for CATV/DVB overlay



HL-4GMV2

GPON ONT with 4 Gigabit LAN ports, WI-FI 2x2 5Ghz and 2x2 2.4Ghz, 2 VoIP FXS port



HL-4GQV

GPON ONT with 4 Gigabit LAN ports, WI-FI 4x4 5Ghz wave2 and 2x2 2.4Ghz, 2 x VoIP FXS ports



HL-4GQVS

GPON ONT with 4 Gigabit LAN ports, WI-FI 4x4 5Ghz wave 2 and 2x2 4Ghz, 1 x VoIP FXS port, 1 x USB port



HL-4GXV-F

GPON ONT with 4 Gigabit LAN ports, WI-FI 6 (AX1800), 2x2 2.4Ghz and 2x2 5Ghz, 1 x VoIP FXS port, mode button



HL-4BX3V-E

GPON ONT with 1x 2.5 Gigabit LAN port 3x Gigabit LAN port, WIFI6 (AX3000) 2T3R 2.4Ghz/5Ghz, 1x VoIP FXS port, 1x USB port



HL-4BX3V-F

GPON ONT with 1x2.5 Gigabit LAN port 3x Gigabit LAN port, WIFI6 (AX3000) 2T3R 2.4Ghz/5Ghz, 1x VoIP FXS port, mode button



HL-5B3XV-F

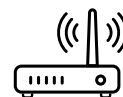
GPON ONT with 1x 2.5 Gigabit LAN port t4x Gigabit LAN ports, WIFI6 (AX3000) 2T3R 2.4Ghz/5Ghz, 1x VoIP FXS port, mode button



Coming soon

XGS-PON & P2P Active Ethernet models

HALNy



HALNy CPE



HLE-3GM

HALNy Ethernet Gateway with 3 Gigabit LAN ports, Wi-Fi 2x2 5GHz and 2x2 2.4GHz, Wi-Fi 5



HLE-3GX-F

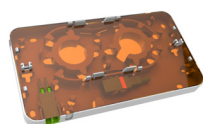
HALNy Ethernet Gateway with 3 Gigabit LAN ports, 1 WAN port, Wi-Fi 2x2 5GHz and 2x2 2.4GHz, Wi-Fi 6



HLE-3GXV-F

HALNy Ethernet Gateway with 3 Gigabit LAN port 1x WAN port, 1 VoIP FXS port, Wi-Fi 2 x 2 5Ghz and 2 x 2 2.4Ghz Wi-Fi 6

HALNy accessories

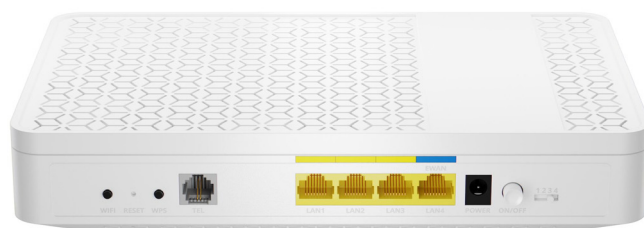
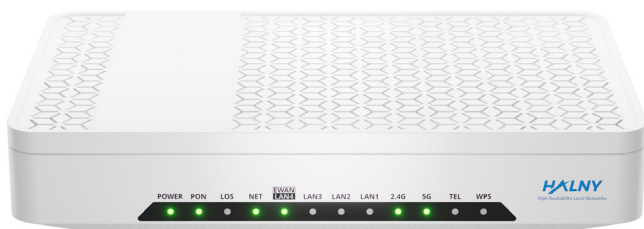


HL-FIBER TRAY

HALNy customer splice outlet with 2x adapters SC/LC/SCA/LCA 1x Optical patch cord reserve holder, possibility to mount optical splitters



HALNy Customised Housing



Features

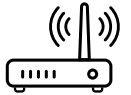
- Possibility to use LAN4 port as an Ethernet WAN port, like a normal Ethernet router.
- The only thing to use this mode is to switch the transfer mode button on the device.
- All functionality like VLAN, VOIP and others remains
- Based on one-touch provisioning You can easily migrate from your actual technology (for example DOCSIS) to GPON, without visits to the subscriber

Top cover housing available in additional colours



- Possibility for customised top cover colour
- Possibility for logo printing

HALNy



OPENOLT  OpenOLT.com

A Multivendor PON and RestAPI cloud Network Management & Provisioning System for GPON



WIFI DASHBOARD

optimize subscribers WiFi network and identify devices that are hogging more bandwidth



PROVISIONING

ONT XML Generator with simple steps



EASY TO USE

We hide complexity of GPON Networks into easy to use web interface.



SUPER FAST

Get information about the situation in field in a seconds right from yours browser. No java clients needed.



VIRTUALIZATION

Fixed Access Broadband Sharing included, share infrastructure with others and increase yours penetration.



SAVES TIMES ON SUPPORT CALLS

Subscribers will get what they want in seconds, don't lose precious time.



SOFTWARE UPDATES

Having up to date device reduce successful attacks on yours network. You can perform or schedule update in the way to prevent failures. Upgrade can be performed during recommended off-peak time.



API AND MANAGEMENT

JSON or XML RestAPI for super easy integration with billing and CRM's.



LOWER TRUCK ROLLS

dispatching a technician takes valuable time for You and yours subscriber. We help to reduce network outage and provide tools to remotely recover the service in the shortest time.



INNOVATION

Game-changing feature allow You to unleash full potential of yours network.



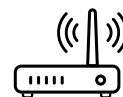
VOTDR

Virtual OTDR helps to identify issues with the passive network.



AUTCARE

Schedule task or perform recommended action during problem detection. With self-learning platform you can apply proven solution right away.



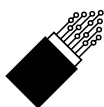
FIBRAIN GPON Comprehensive Passive components



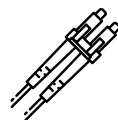
**APT®
technology**



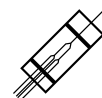
**1x2N /
1x3N / 2x2N**



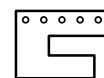
**Fiber Optic
Cables**



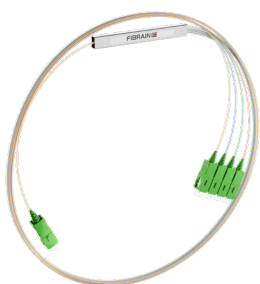
Connectivity



**Passive Optical
Network**



Distribution



Alubox splitter



Blackbox splitter



FIBRAIN Drop Cables D_{CA} CPR
1-4F Single-Mode Fiber



Asymmetrical 1x5 Splitters
for FTTH network with cascaded star topology



Symmetrical Splitter
for FTTH network 1x2N or 1x3N



FIBRAIN Drop Cable Patchcords
1-4F Single-Mode Fiber



SCAB-19-X
self-supporting outdoor OLT cabinet,
12U, 15U or 18U

→ Possibility to customised variants/height



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**Where ultrafast
broadband is needed –
we can help!**

→ halny.com

