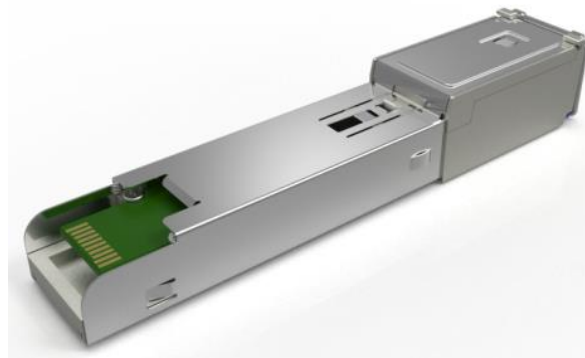


HL-GSFP GPON STICK



Product description

GPON Optical Network Termination products are designed for operators and service providers who seek advantage from the expanded capacity of a fiber access network.

HL-GSFP is a GPON ONT hidden in SFP transceiver and called GPON STICK. **HL-GSFP** can act as a GPON Demarcation Device and is designed to provide affordable access to FTTH networks for Business and Residential use. The products use a single fiber to connect individual homes and businesses to the network for broadband services up to gigabit speeds.

It can be used in any switch (L2/L3), router, CPE or any other device which has an SFP port. This gives the possibility to connect to GPON network devices like IP DSLAM, CCTV cameras, mobile backhaul devices, WiMAX base stations and other.

GPON STICK can operate at an extended temperature range (-40 ~ 85°C) so it can be used in localizations where restricted environmental conditions are important.

All products within the GPON family are compliant to current ITU-T standards for gigabit passive optical networks (GPONs). The solution is designed to optimize the deployment and roll-out of the service provider. The ONT/ONU products are tested and have proven interoperability with most major GPON OLT Vendors.

The flexible product design enables a variety of product features and available interfaces. All units have Layer 2 functionality by default. This includes advanced support for L2 VLAN's, L2 QoS and Multicast IGMP.

HALNy specializes in cost-effective designs, and works closely with service providers to improve their business case through a comprehensive range of standard products, supporting the industry's common demands. HALNy also provides custom designs and services to meet unique customer needs.

The network interface is compliant to ITU-T G.984.5 to provide 2.5 Gb/s downstream and 1.25 Gb/s upstream. LAN interface allows to provide Gigabit service.

All specifications are subject to change without notice. The above product picture is a sample for reference and may vary. Please check with your supplier for exact offers.

HL-GSFP GPON STICK

Hardware Specification

Flash Memory	8MB	Storage Temp.	-40~85°C
WAN Port	1 x GPON Port (SC/APC, BOSA) Class B+ Rx sensitivity -28dBm Rx overload -8dBm	Operating Humidity	5~95 % (non-condensing)
WAN Port Speed	GPON: 2,5Gbps/1,25Gbps (DS/US)	Power Voltage	SFP, single 3.3V power
LAN Port	1000Base-X	Power Consumption	1.8 W (at 25°C) 2.2 W (at 60°C)
INSTALLATION	SFP – hot plugable	SFP Standards	SFP MSA, INF-8074i, SFF-8472 FDA 21 CFR 1040.10&1040.11
Operating Temp.	-40 ~ 85°C (Case)	Dimension (W x H x D)	Compliant with SFF 8472i 74.7 mm x 14.1 mm x 12.4 mm

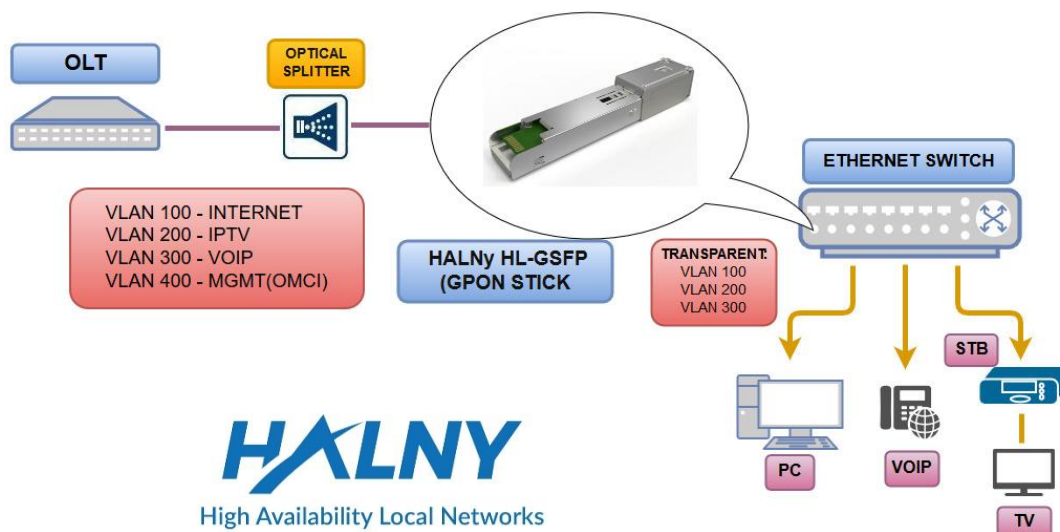
Software Specification

GPON	<ul style="list-style-type: none"> ITU-T G.984 Compliant (G.984.1, G.984.2, G.984.3, G.984.4) ITU-T G.988 Compliant (OMCI Model) Dying gasp Dynamic Bandwidth Allocation Downstream and upstream data Security (AES Encryption) Forward Error Correction (FEC) Support 32 T-CONTs and 256 GEM Port BBF TR-156 Compliant 	Multicast	<ul style="list-style-type: none"> IGMP Snooping
QoS	<ul style="list-style-type: none"> Ingress / Egress Rate Limiting Packet Classification based on COS, DSCP 	L3	<ul style="list-style-type: none"> IP HOST for remote management
		L2	<ul style="list-style-type: none"> IEEE 802.1D Bridging IEEE 802.1Q and IEEE 802.1P compliant VLAN Translation VLAN Filter Up to 10 VLANs Access Trunk Native port Storm-Control QinQ (Transparent and begin/end of tunnel)

Interoperability Test Result

DASAN ZHONG Solutions	V5824G	1.12 #0105
DASAN ZHONG Solutions	V8102	2.02 #0048
HUAWEI	MA5683T	MA5600V800R015C10
ZTE	C320	V2.1.0
ZTE	C220	V1.2.2
CISCO	ME4601	3.7.3
FIBERHOME	AN5116-06B	RP1000
	and other	

Sample scenario



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