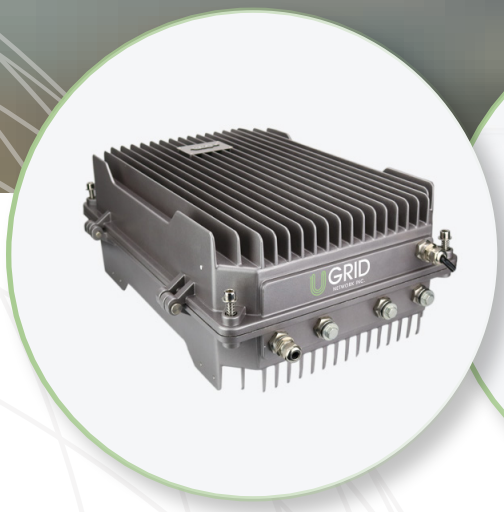
u8 xPON Outdoor Virtual Hub

UGRID NETWORK INC.



Description

u8 is a new concept of "V-HUB" with variant application modules in the hardened housing to provid multi-service access, such as data communication and video broadcasting. It is the state-of-art, fast and cost-effective solution for FTTX solution upon bi-directional network.

Features

- Support 1:64 split ratio and multi-service ONU for EPON, Support 1:128 split ratio and multi-service ONU for GPON.
- Support VLAN pool, it can allocate VLAN to FTTH users automatically.
- Support 4K VLAN based on IEEE802.1p/q.
- Support QinQ VLAN and broadcast storm suppression.
- Redundant and protection design for power supply.
- Outdoor modular design for flexible configuration, ease the installation and expansion.
- Industrial design in outdoor operation.
- Support SNMP network management, unified manage the OLT, ONU and EDFA modules.
- Support open ONU management by CTC2.1/CTC3.0 standard.
- Support auto/offline OLT-ONU configuration in registration.

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Specification

u8 Outdoor Virtual Hub

Dimension(W*D*H):	450mm*384mm*180mm	Weight: 8Kg		
Capacity:	1* xPON OLT	2*Power Supply Module	3*EDFA Module	1*Fiber tray
Power Supply:	DC: -40V~ -57V AC:175~264V			

Port (full config)	Upstream Port	SFP+ optical port*2 or GE electric port*2		
	User Port	EPON port*8 max split ratio 1:64	Or GPON port*8 max split ratio 1:128	
	Management Port	Console port CLI management	FE port WEB GUI management	10GE/GE management

Function & Protocol:

Standard	EPON:IEEE802.3ah	GPON:ITU-T G.98X	10GEPON:IEEE802.3av	

VLAN	Basic VLAN	Support 4K concurrent VLAN	Support ACCESS and TRUNK port mode	Support VLAN priority (COS) remark
	Flexible QINQ	Support flexible QINQ based on report matching type (MAC/IP/CVLAN/ETH-TYPE)		
	VLAN Conversion	Support N:1 conversion based on template binding	Support 1:1 conversion based on template binding	
IGMP	Multicast Mode	Support SNOOPING, PROXY and CTC controllable multicast		
L3 Route	Support L3 IP protocol, such as DHCP Server, DHCP Relay, DHCP Option, OSPF and RIP			
L2 Switch	ACL	Provide illegal frame filtering and packet filtering based on source MAC, source IP, destination IP and port.		
	QOS	Three strategies for queue schedule: SP (Strict Priority), WRR (Weighted Round Robin) and mix mode (SP+WRR)		
	Link Aggregation	Max 4 link aggregation groups		
	Loop Detection	Support STP and RSTP		

Advanced Specification

Efficient Configuration	Support ONU configuration migration, provide batch configuring ONU template, support VLAN pool at ONU port	
System Management	Support in-band and out-of-band management	Support CLI and SNMP network management
	Support batch ONU remote upgrade	
Redundant Backup	Chassis OLT support redundant hot backup of power supply, main control, upstream and PON port	
Link Monitor	Network management supports monitoring optical link index	
	Network management supports data flow statistics of all service ports	
	Support auto alarm when link index degrades	