

G.hn DPU Switch

ZS-GHN3824

24*1G SFP G.hn DPU, 4*10G SFP+ Uplink, L2 Management Switch with G.hn Access Multiplexer Software



Overview

Extend ultra-broadband connectivity where fiber can't reach with ZISA G.hn DPU technology.

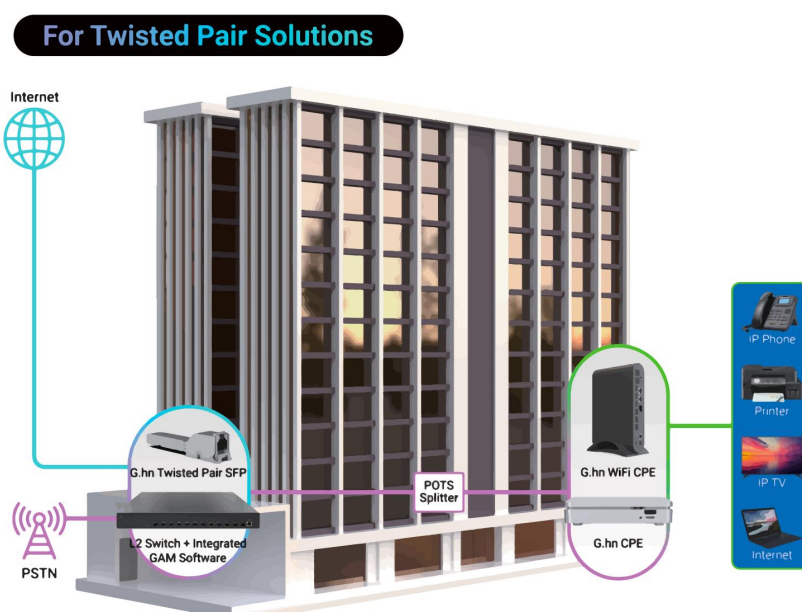
Designed for the cost-effective and scalable last-mile access, G.hn DPU leverages existing copper infrastructure to deliver gigabit speeds. Ideal for MDUs, rural areas, hospitality, and hard-to-reach locations, it simplifies deployment and bridges the digital divide without the need for extensive fiber rollouts.

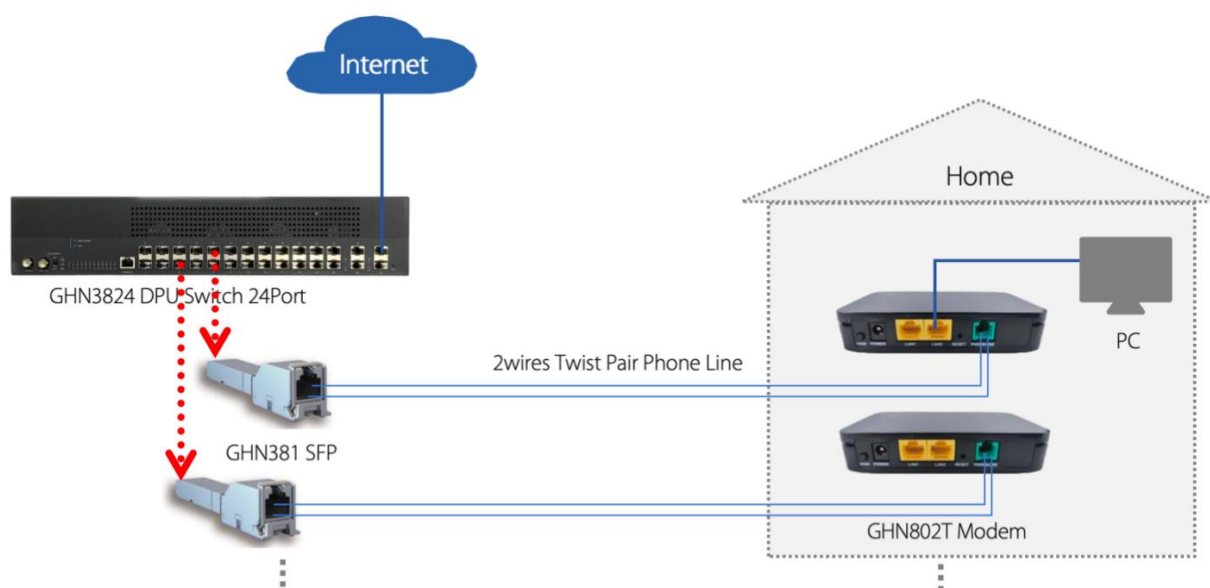
Features

- Support 24*1G SFP ports, 4*10G SFP+ ports
- Support Web UI for configuration
- Support Console port with CLI command
- Support HW monitor Alarm

Applications

- Twisted Pair Phone Line Mode

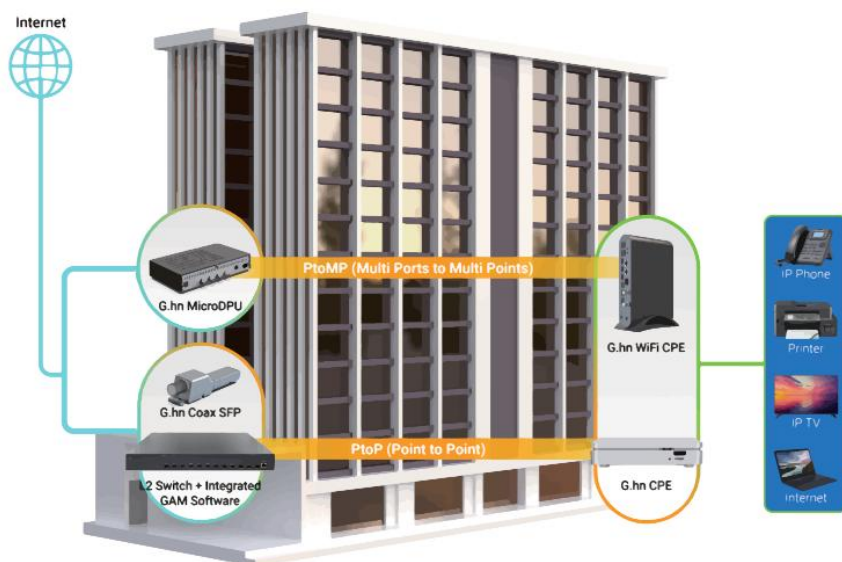


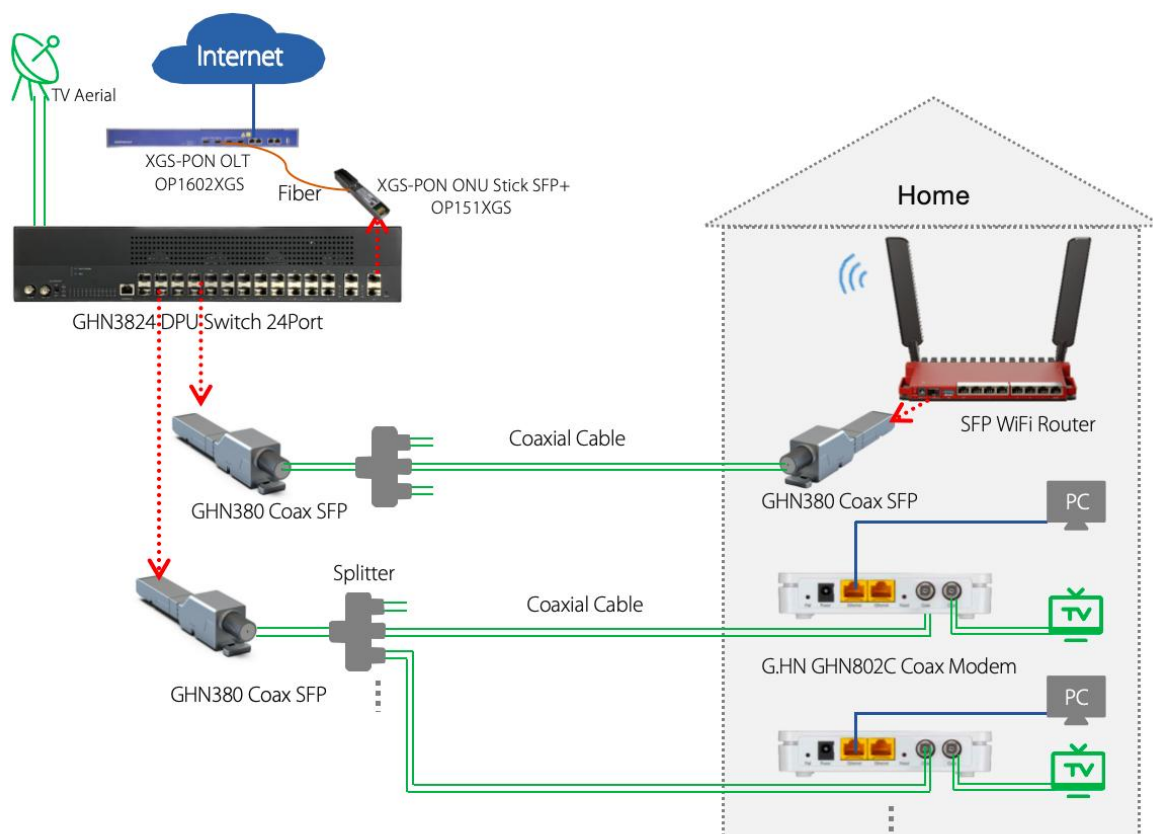


ZISA G.HN DPU Switch+SFP to Modem Point

- Coaxial Mode

For Coaxial Solutions





ZISA G.HN DPU Switch+ Coaxial SFP to Modem I P to MP

I Specifications

Hardware spec

Items	Specifications
Model No.	GHN3824
Key Components	1. RTL9311-CG+RTL8214QF-CGx6 2. Flash IC: MXIC 64M Byte 3. DDR: 4G bits
I/O ports	24x Giga ports, SFP 4 x 10G ports, SFP+ Reset Button: reset to default setting, re-start system Console port by RJ45 type USB2.0 port for configuration
LED Define	PWR: Green LED – Off: power off or fail – On: power on SYS: Green LED – Off: power off or fail – On: system is ready – Blinking: system booting up Alert: Red LED – Off: Switch is normal condition – On: Alarm for system failure because of overheat, wrong voltage. 1-24 SFP Port LED: Link/ACT:

- Off: port disconnected or link fail
 - Green on: 100/1000Mbps connected
 - Blinking: sending or receiving data
- 25-28 port LED:
- SFP+:
- Off: disconnected or fail
 - Blue: 10Gbps connected
 - Green: 1000Mbps connected
 - Blinking: data transmitting

HW feature

IEEE802.3ae SFP+

IEEE802.3az EEE

MAC address Table: 32K

Packet buffer size: 16Mbit

Jumbo Frame: 12K bytes

128Gbps switching capacity

Forwarding rate: 95.2Mpps (64-byte package size)

Data Transfer Rate

G.hn SISO/MIMO/Coax SFP: Up to 2000 Mbps(full duplex)

10 Gigabit SFP+:20 Gbps(full duplex)

System Monitor

HW Monitor IC: ADT7476

- Voltage Monitor
 - Input Voltage: 12V (+/-7% Alarm Threshold)
 - I/O Voltage: 3.3V (+/- 5% Alarm Threshold)
 - DDR Voltage: 1.5V (+/- 5% Alarm Threshold)
 - PHY Voltage: 1.1V (+/- 5% Alarm Threshold)
 - MAC Voltage:0.9V (+/- 5% Alarm Threshold)
- Temperature Monitor
 - BOARD: 0~80°C
 - MAC: 0~85°C
 - PHY: 0~85°C

Power Input

Internal power supply

Input: 90~264VAC/47~63Hz

Output: 12V/6A (Single Power Supply)

Reset button

Support reset to default configuration

Dimension

441(W) x 270(D) x 44(H) mm

FAN Design

3 Fan

Temperature

Operating: 0 ~ 50°C

Storage : -40 ~ 70°C

Humidity

Operating: 10% ~ 90% RH (non-condensing)

Storage: 5% ~ 90% RH (non-condensing)

Software Spec

Base on Customer requirement

Status	System Information		
	Logging Message		
		Statistics	
	Port	Error Disabled	
		Bandwidth Utilization	
Network	Link Aggregation		
	MAC Address Table	32K	
	IP Address	Static / Dynamic	
Port	System Time	SNTP / From Computer / Manual	
		Time	
	Port Setting	State / Speed / Duplex / Flow Control	
Port	Error Disabled	Recovery Interval	ACL / ARP Rate Limit / BPDU Guard / Broadcast Flood / DHCP Rate Limit / Port Security / Self Loop / Unicast Flood / Unknown Multicast Flood
PoE	Link Aggregation	Group	
		Port Setting	State / Speed / Flow Control
		LACP	
	EEE		
	Jumbo Frame	12K Byte	
VLAN	Global Setting	Schedule Status	
	Priority Setting		
	Power Limit		
	Power Show		
VLAN	VLAN	Create VLAN	
		VLAN Configuration	
		Membership	
		Port Setting	
	Voice VLAN	Property	
		Voice OUI	
	Protocol VLAN	Protocol Group	
		Group Binding	
	MAC VLAN	MAC Group	
		Group Binding	
VLAN	Surveillance VLAN	Property	
		Surveillance OUI	

	GVRP	Property	
		Membership	
		Statistics	
MAC Address Table	Dynamic Address	Aging Time	
	Static Address		
	Filtering Address		
Spanning Tree	Property	State / Operation Mode / Path Cost / BPDU Handling	Operation Mode : STP/RSTP/MSTP
	Port Setting		
	MST Instance		
	MST Port Setting		
	Statistics		
Discovery	LLDP	Property	
		Port Setting	
		MED Network Policy	
		MED Port Setting	
		Packet View	
		Local Information	
		Neighbor	
Multicast	General	Statistics	
		Property	Unknown Multicast Action / Multicast Forward Method
		Group Address	
		Router Port	
		Forward All Table	
		Throttling	
		Filtering Profile	
		Filtering Binding	
	IGMP Snooping	Property	State / Version / Report Suppression
		Querier	
		Statistics	
	MLD Snooping	Property	State / Version / Report Suppression
		Statistics	
	MVR	Property	State / VLAN / Mode / Group Start / Group Count / Query Time
		Port Setting	
		Group Address	
Security	RADIUS		
	TACACS+		
	AAA	Method List	

	Management Access	Login Authentication	Console / Telnet / SSH / HTTP / HTTPS
		Management VLAN	
		Management Service	Telnet / SSH / HTTP / HTTPS / SNMP / Session Timeout
		Management ACL	
		Management ACE	
	Authentication Manager	Property	
		Port Setting	
	Port Security	Sessions	
		Protected Port	
	Storm Control		State / Broadcast / Unknown Multicast / Unknown Unicast / Action (Drop / Shutdown)
	DoS	Property	
		Port Setting	
	Dynamic ARP Inspection	Property	
		Statistics	
	DHCP Snooping	Property	
		Statistics	
		Option82 Property	
		Option82 Circuit ID	
	IP Source Guard	Port Setting	
		IMPV Binding	
		Save Database	
ACL	MAC ACL		
	MAC ACE		
	IPv4 ACL		
	IPv4 ACE		
	IPv6 ACL		
	IPv6 ACE		
QoS	ACL Binding		
	General	Property	CoS / DSCP / CoS-DSCP / IP Precedence
		Queue Scheduling	Strict Priority / WRR
		CoS Mapping	
	Rate Limit	DSCP Mapping	
		IP Precedence Mapping	
		Ingress / Egress Port	
	Logging	Egress Queue	
		Property	Console / RAM / Flash
	Remote Server		
Diagnostics			

Management	Mirroring		
	Ping		
	Traceroute		
	Copper Test		
	Fiber Module		
	UDLD	Property	Message Time
		Neighbor	
	User Account		
	Firmware	Upgrade / Backup	Action (Upgrade / Backup) / Method (TFTP / HTTP)
		Active Image	Active Image / Backup Image
Management	Configuration	Upgrade / Backup	Action (Upgrade / Backup) / Method (TFTP / HTTP)
		Save Configuration	Source File / Destination File, Restore Factory Default
		View	
	SNMP	Group	
		Community	
		User	
		Engine ID	
		Trap Event	Authentication Failure / Link UP_Down / Cold Start / Warm Start
		Notification	
RMON	Statistics		
G.hn	History		
	Event		
	Alarm		
	Vector Boost		
	G.hn Identify		
	G.hn Status		

I Order Information



ZS-GHN3804



ZS-GHN3810



ZS-GHN3824

Product Name	Product Description
ZS-GHN3804	4port G.hn DPU Switch, 2*10G Uplink, AC220V
ZS-GHN3810	10port G.hn DPU Switch, 2*10G Uplink, AC220V
ZS-GHN3824	24port G.hn DPU Switch, 4*10G Uplink, AC220V

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