



# GLOBAL MESH CO., LTD



## zNID 2400 Series Indoor GPON ONT

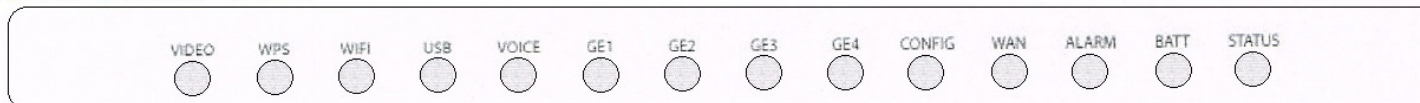
ZNID-GPON- 2426

### GPON ONT for Residential Deployment

- ✓ *Standard ITU G.984 GPON*
- ✓ *Indoor deployment*
- ✓ *Triple-Play QoS*
- ✓ *Multicast video*
- ✓ *VoIP with CLASS 5 Features*
- ✓ *802.11b/g/n WiFi*

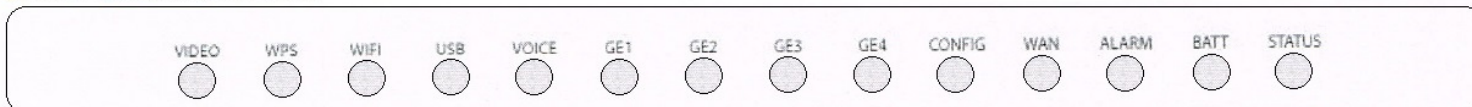


## zNID Status LEDs



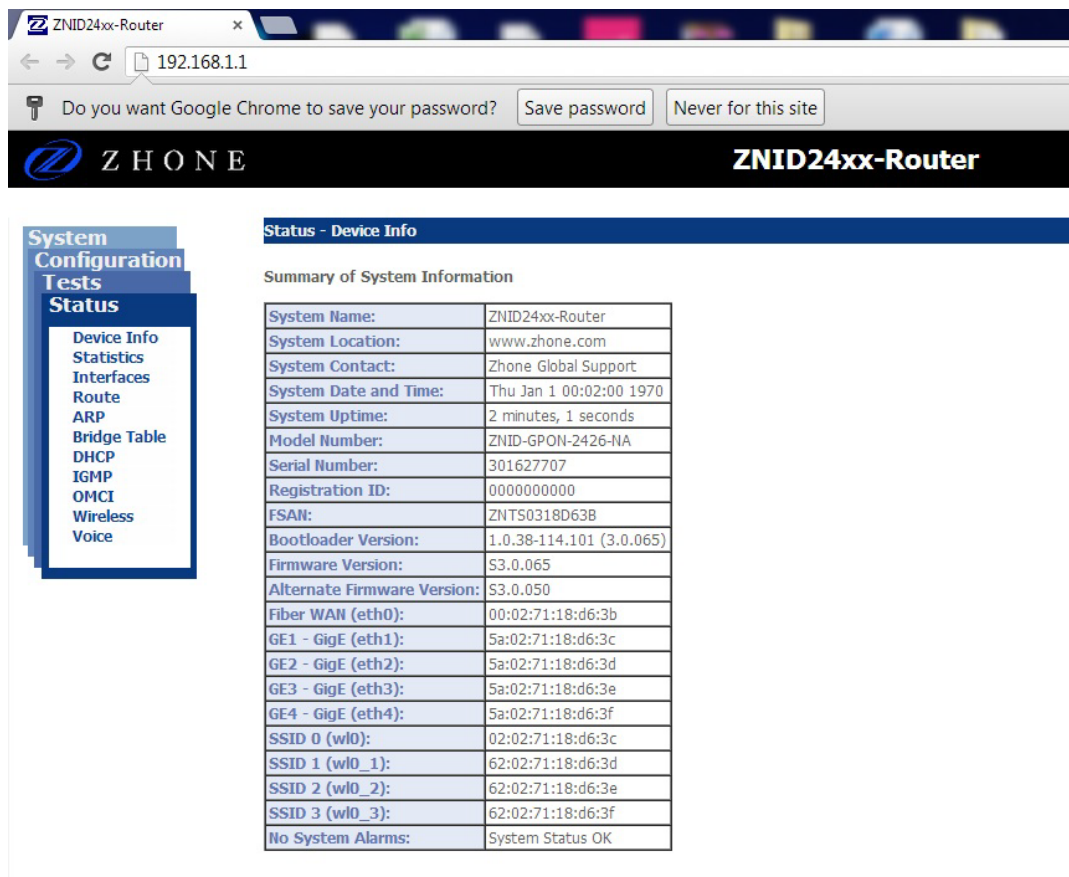
LED Name	Color	Behavior	Indicates
STATUS	Green	Heartbeat (1 short blink every 5 seconds)	Normal Operation
	Green	Rapid Blink (10/sec)	Unit has been reset to Factory Defaults / is unconfigured
	Green	50% cycle: 1 sec Rapid Blink / 1 sec Off	System booting
	Green	Slow Blink (1 / sec)	Remote Mgt Access (SNMP, HTTP, Telnet, or TR-069)
	Green	Solid On	Reboot or restart in process
	None	OFF	Power off
BATT	Yellow	Solid On	Operating on Battery Power
	Yellow	Slow Blink (1 / sec)	Battery Alarm (Low Battery, Missing, or Replace)
	None	OFF	Normal operation on AC power
ALARM	Red	Solid On	Major Alarm
	Red	50% cycle: 1 sec Rapid Blink / 1 sec Off	EZ Touch actions pending — SW or Config update required
	None	OFF	No Major Alarms
WAN	Green	Solid On	Ranged successfully
	Green	Flashing	Ranging in progress
	None	OFF	Not ready for ranging or not provisioned
CONFIG	Green	Solid On	OMCI provisioning is complete or EZ Touch configuraton is complete
	Green	Rapid Blink (10 / sec)	OMCI provisioning is in progress
	Green	Slow Blink (1 / sec)	Non-OMCI provisioning configuration changes being written to FLASH
	None	OFF	No OMCI provisioning

## zNID Status LEDs



LED Name	Color	Behavior	Indicates
GE1 -GE4	Green	Solid On	Ethernet interface link
	Green	Flashing	Data transmitting
	None	OFF	No link on Ethernet interface
VOICE	Green	Solid On	Registered successfully
	Green	Slow Blink (1 / sec)	Off hook
	None	OFF	Registration failed or telephone service is not provisioned
USB	Green	Solid On	Connected
	None	OFF	No power/USB not connected
WIFI	Green	Solid On	WIFI enabled
	Green	Flashing	Data transmitting
	None	OFF	WIFI disabled
WPS	Green	Long Flash	Success
	Green	Flashing	In progress
	None	OFF	WPS disabled
VIDEO	Green	Solid On	1550nm signal is normal and RF video output is enabled
	Green	Slow Blink (1 / sec)	RF video output is enabled, but no 1550nm signal received
	None	OFF	RF video output is disabled

# การ Setup ONU Zhone



The screenshot shows a web browser window with the address bar set to 192.168.1.1. The page title is "ZNID24xx-Router". Below the browser window, the Zhone logo and "ZNID24xx-Router" are displayed. A navigation menu on the left includes "System Configuration", "Tests", "Status", "Device Info", "Statistics", "Interfaces", "Route", "ARP", "Bridge Table", "DHCP", "IGMP", "OMCI", "Wireless", and "Voice". The "Status - Device Info" section is active, showing a "Summary of System Information" table.

System Name:	ZNID24xx-Router
System Location:	www.zhone.com
System Contact:	Zhone Global Support
System Date and Time:	Thu Jan 1 00:02:00 1970
System Uptime:	2 minutes, 1 seconds
Model Number:	ZNID-GPON-2426-NA
Serial Number:	301627707
Registration ID:	0000000000
FSAN:	ZNTS0318D63B
Bootloader Version:	1.0.38-114.101 (3.0.065)
Firmware Version:	S3.0.065
Alternate Firmware Version:	S3.0.050
Fiber WAN (eth0):	00:02:71:18:d6:3b
GE1 - GigE (eth1):	5a:02:71:18:d6:3c
GE2 - GigE (eth2):	5a:02:71:18:d6:3d
GE3 - GigE (eth3):	5a:02:71:18:d6:3e
GE4 - GigE (eth4):	5a:02:71:18:d6:3f
SSID 0 (wl0):	02:02:71:18:d6:3c
SSID 1 (wl0_1):	62:02:71:18:d6:3d
SSID 2 (wl0_2):	62:02:71:18:d6:3e
SSID 3 (wl0_3):	62:02:71:18:d6:3f
No System Alarms:	System Status OK

WebUI ของ Zhone จะมี IP Default เป็น 192.168.1.1

Username : admin

Password : zhone

[Tests](#)  
[Status](#)  
[System](#)  
**Configuration**

[System Info](#)  
[Static Route](#)  
[Access Control](#)  
[Firewall](#)  
[Interfaces](#)  
     [Bridged](#)  
     [BRouted](#)  
     [Routed](#)  
     [PPPoE](#)  
     [Ethernet](#)  
     [Rate Limits](#)  
[Wireless](#)  
[Voice](#)  
[VLAN](#)  
[WAN Backup](#)

**Configuration - Interfaces PPPoE**

## PPPoE Interface Setup

		select column <input checked="" type="checkbox"/>	<input type="checkbox"/>
		Tunneled Interfaces eth0.v3333.ppp brvlan3333	
<b>Interface Attributes</b>	I/F Name	Fiber WAN	Bridge
	I/F Type	Uplink	-
	VLAN ID	3333	3333
	MAC Address	00:02:71:18:d6:3b	-
<b>IP Configuration</b>	Address Mode	PPPoE	Unconfigured
	IP Address	0.0.0.0	0.0.0.0
	Subnet Mask	0.0.0.0	0.0.0.0
	Default Gateway	0.0.0.0	-
	Max MTU Size	1492	1492
<b>Client Addressing</b>	NAT/NAPT	NAT	-
	DHCP Server	-	Disable
	Normal Range	-	0.0.0.0 - 0.0.0.0
	Conditional DHCP	-	Disabled
	Lease Time (sec)	-	86400
	DNS Relay Source	-	Default
	DNS Primary	-	0.0.0.0
DNS Secondary	-	0.0.0.0	

[Add PPPoE Interface](#)
[Edit Selected Interface](#)

ให้เลือกที่เมนู Interfaces > PPPoE

ให้ติ๊กถูกที่ VLAN ที่สร้างในฝั่งของ Fiber WAN แล้วกด Edit Selected Interface

**Tests**  
**Status**  
**System**  
**Configuration**

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 Interfaces  
   Bridged  
   BRouted  
   Routed  
   PPPoE  
   Ethernet  
   Rate Limits  
 Wireless  
 Voice  
 VLAN  
 WAN Backup

**Configuration - PPPoE Interface => Edit Selected Interface**

**Edit PPPoE Uplink Interface**

Selected I/F: **eth0.v3333.ppp** VLAN ID: **3333**

I/F Name: **Fiber WAN**

Use Derived MAC:

**IP Configuration**

Address Mode:

IP Address:

Subnet Mask:

Default Gateway:

Max MTU Size:

**Client Addressing**

NAT/NAPT:

**PPPoE Configuration**

Username:

Password:

Service Name:

Authentication:

Retry Interval:

เลือก NAPT ในหัวข้อ Client Addressing

แล้วใส่ Username & Password

กด Save/Apply



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     [Rate Limits](#)  
[Wireless](#)  
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**Configuration - Interfaces PPPoE**

## PPPoE Interface Setup

	select column	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Tunneled Interfaces eth0.v3333.ppp brvlan3333</b>			
<b>Interface Attributes</b>	I/F Name	Fiber WAN	Bridge
	I/F Type	Uplink	-
	VLAN ID	3333	3333
	MAC Address	00:02:71:18:d6:3b	-
<b>IP Configuration</b>	Address Mode	PPPoE	Unconfigured
	IP Address	0.0.0.0	0.0.0.0
	Subnet Mask	0.0.0.0	0.0.0.0
	Default Gateway	0.0.0.0	-
	Max MTU Size	1492	1492
<b>Client Addressing</b>	NAT/NAPT	NAT	-
	DHCP Server	-	Disable
	Normal Range	-	0.0.0.0 - 0.0.0.0
	Conditional DHCP	-	Disabled
	Lease Time (sec)	-	86400
	DNS Relay Source	-	Default
	DNS Primary	-	0.0.0.0
DNS Secondary	-	0.0.0.0	

[Add PPPoE Interface](#)
[Edit Selected Interfaces](#)

จากนั้นให้เลือกในฝั่ง Interface ที่เป็น Bridge แล้วกด Edit Selected Interface

**Tests**  
**Status**  
**System**  
**Configuration**

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 Access Control  
 Firewall  
 Interfaces  
   Bridged  
   BRouted  
   Routed  
   PPPoE  
   Ethernet  
   Rate Limits  
 Wireless  
 Voice  
 VLAN  
 WAN Backup

**Configuration - PPPoE Interface => Edit Selected Interface**

**Edit PPPoE Bridged Interface**

Selected I/F:	<b>brvlan3333</b>	VLAN ID:	<b>3333</b>
I/F Name:	<b>Bridge</b>		
<b>IP Configuration</b>			
IP Address:	<input type="text" value="192.168.1.1"/>	Subnet Mask:	<input type="text" value="255.255.255.0"/>
Max MTU Size:	<input type="text" value="1492"/>		
<b>Client Addressing</b>			
DHCP Server:	<input type="text" value="Enable"/>	Lease Duration (sec):	<input type="text" value="86400"/>
No Conditional DHCP Rules Defined			
Unconditional DHCP Start Address:	<input type="text" value="192.168.1.10"/>	Stop Address:	<input type="text" value="192.168.1.100"/>
DNS Relay Source:	<input type="text" value="Default"/>		
Primary DNS:	<input type="text" value="0.0.0.0"/>	Secondary DNS:	<input type="text" value="0.0.0.0"/>

ทำการกำหนดค่าต่างๆ โดยเริ่มจาก IP Address ของตัวอุปกรณ์ , Subnet Mask ,  
 Enable DHCP Server และกำหนด IP ที่จะให้เริ่มแจกเป็นเท่าไรและหยุดที่  
 เท่าไร กด Save/Apply เป็นการจบขั้นตอนในการ Setup ให้ใช้งาน Internet ได้

# การ Setup Wireless

- Tests
- Status
- System
- Configuration
  - System Info
  - Static Route
  - Access Control
  - Firewall
  - Interfaces
  - LLDP-MED
  - Wireless
    - Basic
    - Security
    - MAC Filter
    - Bridge
    - Advanced
  - Voice
  - VLAN
  - WAN Backup

## Configuration - Wireless Basic

### Wireless -- Basic

- Enable Wireless
- Hide Access Point
- Isolate Clients
- Disable WMM Advertise

SSID:

BSSID: 02:02:71:35:FC:EE

Maximum Transmit Power: 300mW

Max Clients:

### Wireless - Guest/Virtual Access Points:

Enabled	SSID	Hidden	Isolate Clients	Disable WMM Advertise	Max Clients	BSSID
<input type="checkbox"/>	<input type="text" value="ZHONE_SSID1"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="16"/>	N/A
<input type="checkbox"/>	<input type="text" value="ZHONE_SSID2"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="16"/>	N/A
<input type="checkbox"/>	<input type="text" value="ZHONE_SSID3"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="16"/>	N/A

Configuration > Wireless > Basic

ติ๊กถูก Enable Wireless แล้วตั้งชื่อสัญญาณ SSID

- Tests
- Status
- System
- Configuration**
- System Info
- Static Route
- Access Control
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- LLDP-MED
- Wireless
  - Basic
  - Security**
  - MAC Filter
  - Bridge
  - Advanced
- Voice
- VLAN
- WAN Backup

### Configuration - Wireless Security

#### Wireless -- Security

##### WPS Setup

Enable WPS

##### Manual Setup AP

Select SSID:

Network Authentication:

WPA/WAPI passphrase:  [Click here to display](#)

WPA Group Rekey Interval:

WPA/WAPI Encryption:

WEP Encryption:

Configuration > Wireless > Security

เลือกชื่อสัญญาณ SSID แล้วเลือกรูปแบบการเข้ารหัส และตั้งรหัสผ่าน

Tests  
Status  
System  
**Configuration**

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- Access Control
- Firewall
- Interfaces
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- Wireless
  - Basic
  - Security
  - MAC Filter
  - Bridge
  - Advanced
- Voice
- VLAN
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**Configuration - Wireless Advanced**

Wireless -- Advanced

Band:	2.4GHz	
Channel:	Auto	Current: 11 (interference: acceptable)
Auto Channel Timer(min)	15	
802.11n/EWC:	Auto	
Bandwidth:	20MHz	Current: 20MHz
Control Sideband:	Lower	Current: None
802.11n Rate:	Auto	
802.11n Protection:	Auto	
Support 802.11n Client Only:	Off	
54g™ Rate:	1 Mbps	
Basic Rate:	Default	
Fragmentation Threshold:	2346	
RTS Threshold:	2347	
DTIM Interval:	1	
Beacon Interval:	100	
Global Max Clients:	50	
XPress™ Technology:	Disabled	
Transmit Power:	100%	
WMM(Wi-Fi Multimedia):	Enabled	
WMM No Acknowledgement:	Disabled	
WMM APSD:	Enabled	

Apply/Save

Configuration > Wireless > Advanced

ปรับค่า Wireless Channel และ Bandwidth

THE END