

zNID-24xxA1

Quick Installation Instructions

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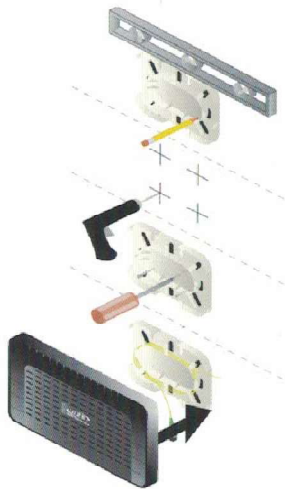
Installation

1. Mounting

The zNID-24xxA1 has an optional fiber tray which is designed either to be mounted to a wall or set upon a desktop.

Wall mount when using a fiber tray:

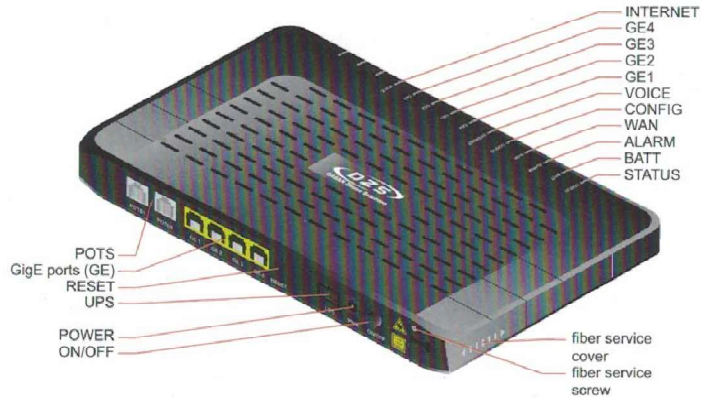
- a. Hold the bracket level in the desired location and mark the hole positions



- b. In hardwood or steel surfaces, drill 5/64-inch (2-mm) pilot holes at the marked hole positions.
- c. Fasten the bracket using screws appropriate for the surface. Use screw anchors (not provided) when attaching to drywall or other soft materials.
- d. For both desktop and wall mount options, wrap extra fiber around the fiber spools in a counter clockwise direction, making sure there is enough flexibility for the fiber to connect to the zNID without bending the fiber tighter than a 30 mm radius.
- e. Attach the zNID to the fiber tray.

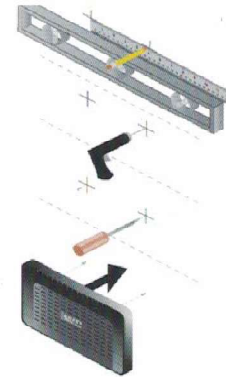


Keep fiber loose from tray to unit to maintain the bend radius on the cable larger than the prescribed minimum bend radius.



Wall mount without fiber tray:

- a. Prepare the surface for mounting and mark wall on a level horizontal line 13 cm apart (a little less than 5 1/8 inches)
- b. Drill the holes and attach screws appropriate for the surface, leaving enough space from being flush to mount unit.



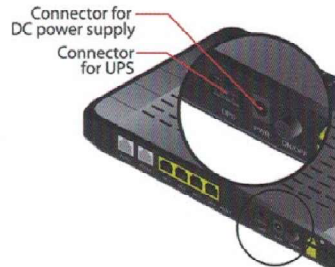
2. Connect to the network

- a. Remove the fiber service cover by removing the fiber service screw and then pulling the fiber service cover forward (toward the connection panel of the 24xxA1). Note that the screw need not be pulled free from the cover, just loose enough to remove the service cover.
- b. Remove the dust covers from the SC/APC (GPON-green) or SC/UPC (Ethernet-blue) optical connectors. Clean the connector if needed.
- c. Plug in the fiber connector to connect the 24xxA1 to the network.
- d. Reattach the fiber service cover onto the 24xxA1 including the fiber service screw.



3. Connect power

The 24xxA1 has a DC power supply power connection and an uninterruptible power supply (UPS) power connection. **NOTE** that the UPS and DC power connections **MUST NOT** be used at the same time.



If using DC power supply

- Plug the round two pin DC power connector of the DC power supply into the 24xxA1 power port.
- Plug the DC power supply into a live AC outlet.
- Verify that the STATUS LED on the 24xxA1 is solid or blinking green indicating local power is on and voltage is good. See the LED descriptions for a complete description of the LEDs.

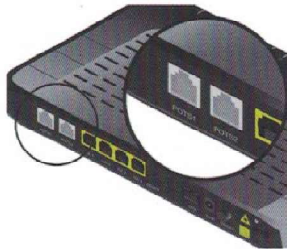
If using UPS power:

You cannot use the strain relief mounting pad with UPS power.

- Plug the UPS connector into the zNID. For more information see the *zNID 24xxA1 Hardware Installation Guide* available at zhone.com.

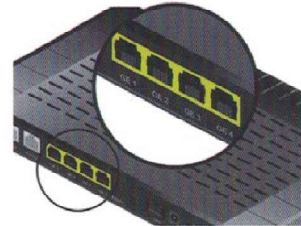
4. Connect telephone (POTS) service

- Plug the line from the telephone into one of the POTS ports.
- Repeat step a to connect additional phone lines.



5. Connect Ethernet service

All zNID-24xxA1 have Gigabit Ethernet ports, either four or eight ports.



- Locate the premises' Ethernet LAN cable.
- If the cable is not terminated, follow local practices to attach an RJ-45 connector.
- Plug the Ethernet cable into the zNID RJ-45 Ethernet port.
- Repeat steps b-c as needed to connect additional Ethernet cables.

6. Logging in locally to the zNID

The zNID-24xxA1 series may be managed from ZMS, Web UI or CLI. This section describes logging into the zNID locally using the subscriber facing LAN port, GE1.

- Connect an Ethernet cable from your computer to GE1 on the zNID.
- Launch a browser or telnet session and point it to 192.168.1.1
- Enter the username and password.

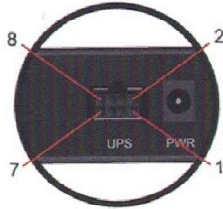
The default username/password is admin/zhone.

For security the password should be changed as described in the *zNID 24xxA1 Configuration Guide* available at zhone.com.

UPS Connector Pinouts

Below are the pin outs for the UPS connector.

Note the UPS and DC power connections *MUST NOT* be used at the same time.



Pin	Signal	Comments
1	+VDC	Power in from UPS
2	-VDC	Power return to UPS
3	On Battery	Open signal when on battery power
4	Signal Return	Connected to Signal GND on ONT
5	Missing Battery	Open signal when battery not detected
6	Replace Battery	Open signal when battery should be replaced
7	GND	Connected to Signal GND on ONT
8	Low Battery	Open signal when battery is low

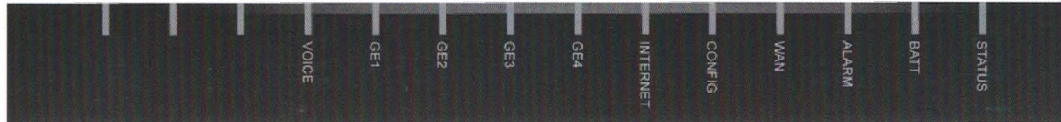
For more information on pinouts, please see the *zNID 24xxA1 Hardware Installation Guide* available at zhone.com

Supported models

For more information, please see the *zNID 24xxA1 Hardware Installation Guide* available at zhone.com

Model	Description
ZNID-GPON-2424A1	GPON Uplink, 2 POTS, 4 GigE
ZNID-GPON-2426A1	GPON Uplink, 2 POTS, 4 GigE, 2x2 2.4GHz 802.11b/g/n
ZNID-GPON-2428A1	GPON Uplink, 2 POTS, 4 GigE, 2x2 2.4GHz 802.11b/g/n and 3x3 5.8GHz 802.11a/n/ac
ZNID-GE-2424A1	GE Uplink, 2 POTS, 4 GigE
ZNID-GE-2426A1	GE Uplink, 2 POTS, 4 GigE, 2x2 2.4GHz 802.11b/g/n
ZNID-GE-2428A1	GE Uplink, 2 POTS, 4 GigE, 2x2 2.4GHz 802.11b/g/n and 3x3 5.8GHz 802.11a/n/ac

zNID Status LEDs



LED Name	Color	Behavior	Indicates
STATUS	Green	Heartbeat blink (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 (2 / sec)	Battery Alarm (Low Battery, Missing, or Replace)
	None	OFF	Normal operation on DC power supply
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	Flash	Ranging in progress
	None	OFF	Not ready for ranging or not provisioned
CONFIG	Green	Solid On	EZ Touch configuration is complete
	Green	Rapid Blink (10 / sec)	EZ Touch provisioning is in progress
	None	OFF	No EZ Touch provisioning was performed
INTERNET	Green	Solid On	Internet service is available
	None	Off	Internet service is unavailable (no response from DNS server)
GE1 to GE4	Green	Solid On	Ethernet interface linked
	Green	Flash	Data transmitting
	None	OFF	Ethernet interface not linked
VOICE	Green	Solid On	Registered successfully
	Green	Slow Blink (1 / sec)	Off hook
	None	OFF	Registration failed or telephone service is not provisioned

NOTE: Slots and openings in the housing are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, these slots and openings must not be blocked or covered. This unit is also certified to operate effectively under the following conditions: Operating Temperature: 32° F to 104° F (0° C to 40° C).

Do not look into the ends of optical fibers. Exposure to invisible LASER radiation may cause serious retinal damage or even blindness. Verify the optical source is disabled through the use of an optical power meter before handling optical fibers.

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