Flashing Fast	Software upgrade has failed.
OFF	Optical signal is present and operating normally.

ETH1-4

ON	Ethernet link is operational.
Flashing	Indicates data transmission / reception.
OFF	No Ethernet link or port is not equipped.

POTS

ON	Line is off hook (call active or in process).
Flashing Slow	Indicates ringing line.
OFF	Line is on hook (no call in process) or port is not equipped.

MGMT

ON	Management channel (OMCI) active.
OFF	Management channel (OMCI) not active.

WLAN

ON	WIFI function is active.
Flashing	Indicates data transmission / reception.
OFF	WIFI function is not active.

Environmental Requirements

Rated Voltage:	DC 12V
Rated Current:	2A
Operating Temperature:	+5°C to +40°C
Operating Relative Humidity:	5% to 85%
Storage Temperature:	-40°C to +60°C
Storage Relative Humidity:	0% to 95%

Model List

Model	Functions	Select
7259G	2POTS + 4GE + CATV + Return + WiFi	
7257G	2POTS + 4GE + CATV + Return	
7258G	2POTS + 4GE + CATV + WiFi	
7253G	2POTS + 4GE + CATV	
7281G	2POTS + 4GE + WiFi	
7251G	2POTS + 4GE	

FCC Notice -1

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

FCC RF Safety Caution Statement

To satisfy FCC RF exposure requirement for mobile and base station transmission devices, a separation distance of 20cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operation at closer than this distance is not recommended. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Notice -2

The 72xxG North America edition is limited using channel 1-11. This limited operation can be only set by software and was done before the product down from the product line. All the products for North America marketing were embedded this limited before shipping. Customers have no way to choose the channel 12 & 13.

iPHOTONIX

1299 Commerce Dr.
Richardson, TX 75081
214-575-9300

iPHOTONIX

GPON SFU ONT

Indoor Type

Quick Install Guide

OVERVIEW

The 72xx SFU residential ONT delivers high quality VoIP voice service, Ethernet data service for high-speed internet access and IPTV broadcast video plus video on demand services. They provide the following user features:(see *Model List* for exact features)

- 2 POTS ports - provide voice telephone service
- 4 LAN ports - provide Ethernet connectivity
- WIFI ports - provide WIFI connectivity
- CATV ports - provide CATV and Return service
- USB ports - provide data backups service
- UPS ports - provide UPS service

INSTALLATION

The 72xx SFU ONT can be mounted vertically or horizontally on any flat surface.

Unpack

Unpack the unit and verify that it is free from shipping damage.:

Desk Mount

1.) Set the unit on a flat surface considering the following:
    - within reach of the power source
    - no thermal obstructions
    - not in direct sunlight
    - user ability to monitor/operate the unit

Wall Mount

1.) Use wall anchors or wood screws (if mounting to plywood mounted on a wall), spaced 5.125" apart center to center.
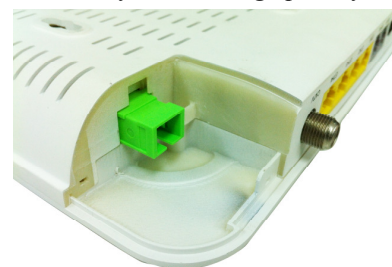
Fiber Connection

1.) On the back left side of the unit is a fiber cover. Slide the fiber cover off as shown.

2.) With the fiber connector exposed, remove the dust plug, clean the fiber ends and terminate the SC equipped fiber.

Danger! . *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*
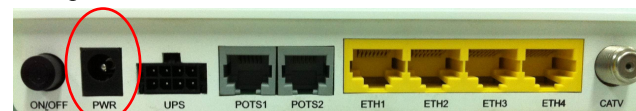
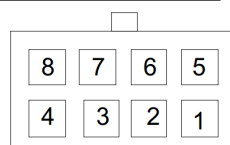3.) Insert the fiber into the cover slot and slide the cover back onto the 72xx unit.

Power

1.) Connect the 2.5mm DC power plug to the port labeled PWR.

UPS

1.) The UPS alarms are connected via a MOLEX 43025-0800 connector. The pin orientation as viewed from the back as shown below.
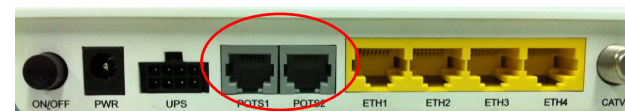
| 8 | 7 | 6 | 5 |
| 4 | 3 | 2 | 1 |

PIN	NAME	ALM
1	Power Input (+12 VDC)	–
2	UPS Status: On Battery	1
3	UPS Status: Battery Missing	2
4	Signal Return	–
5	Power 12V Return	–
6	UPS Status: Replace Bettery	3
7	UPS Status: Low Battery	4
8	No Connection (N/A)	–

Pins for the connector are Molex 46235-5002
NOTICE: Please adopt UL certificated UPS which meets Limited Power Source standard.
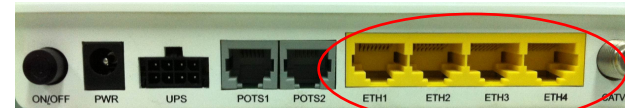
POTS Connections

1.) Connect up to 2 phones to the ports labeled POTS1 and POTS2 identified below.
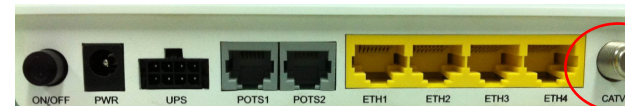
LAN Connections

1.) Connect the computers/routers to the ports labeled ETH1 thru ETH4.

CATV Connections

1.) Connect the television to the port labeled CATV. This port also supports Return service in some models.

WIFI Connections

1.) Connect the Notebook computers/WIFI terminals to the SSID named "iphotonix-ONT" which can be changed manually.
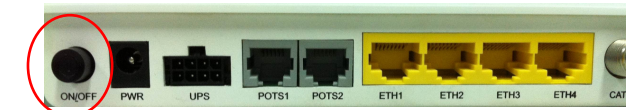

USB Connections

1.) Connect the flash-disk/portable hard disk to the port labeled USB on the left side of the units.

USER CONTROLS

The 72xx SFU ONT is equipped with an ON/OFF button. User functionality should be limited to this button

LED Descriptions

The 72xx SFU ONT has visual LED indicators to help the user determine the operational state of the unit. The LEDs are defined as follows:

Power

ON	Unit is powered on
OFF	Unit is powered off

Battery

ON	Battery is charged and unit is operating normally on external power.
Flashing Slow	Unit is running off of battery power only. Check power supply to unit.
Flashing Fast	Battery is low and unit may turn off if external power is not restored.
OFF	Battery is missing or defective.

FAIL

ON	Indicates Loss Of Signal (LOS). No optical signal is present.
Flashing Slow	Margnal signal indicates a weak optical signal from carrier. Clean fiber connection per local procatice and check power with an optical meter.