

## 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.

Page 6

## FCC Notice -2

This device is intended to be attached to a receiver that is not used to receive over-the-air broadcast signals. Connection of this device in any other fashion may cause harmful interference to radio communications and is in violation of the FCC Rules, part 15.

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

Page 7

**iPHOTONIX**

## GPON SFU ONT



## Quick Install Guide

© Copyright 2013, iPhotonix

## 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 - voice telephone service
- 4 LAN ports - Ethernet connectivity
- WiFi ports - WiFi connectivity
- CATV ports - CATV and Return service
- USB ports - data backups service
- UPS ports - 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 5.709" apart center to center for horizontal mounting or 3.543" apart center to center for vertical mounting.

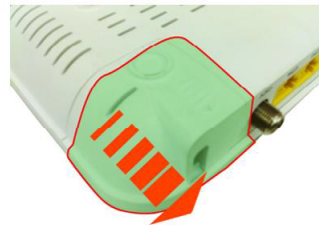
Page 1

技术要求:

- 1、标签用于IPHOTONIX室内机项目;
- 2、折叠后尺寸64X154mm;折叠后封面朝上;
- 3、材质: 70g书写纸;
- 4、印刷颜色: 黑色印刷, 双面印;
- 5、公差±1mm;
- 6、材料及印刷工艺均满足ROHS要求。

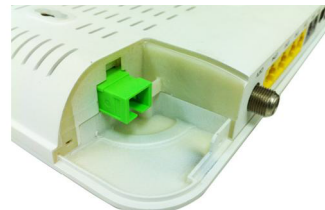
### Fiber Connection

1.) On the back left side of the unit is fiber cover. Slide it 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.



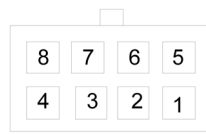
### DC Power Input

1.) Connect the 2.1mm DC power plug to the port labeled PWR.



### UPS Power and Alarms

1.) The UPS power/alarm input uses a MOLEX 43025-0800 connector. Pin orientation as shown is viewed from the rear.



| 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 Battery | 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.



### LAN Connections

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



### CATV Connection

1.) Connect the television to the port labeled CATV. This port supports Return Service on select models.



### WiFi Connection

1.) Change the notebook/computer WiFi network SSID to "iphotonix-ONTxxxx". This may be changed manually.

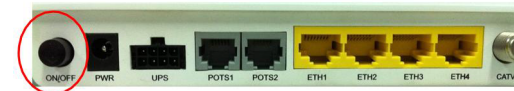
### USB Connection

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



### User Controls

1.) 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.  |

#### MGMT

|     |  |
|-----|--|
| ON  | Management channel (OMCI) is active      |
| OFF | Management channel (OMCI) is not active. |

### ETH 1- 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. |

### FAIL

|               |  |
|---------------|--|
| ON            | Indicates Loss Of Signal (LOS). No optical signal is present.  |
| Flashing Slow | Marginal signal indicates a weak optical signal from carrier. Clean fiber connection per local practice and check power with an optical meter. |
| Flashing Fast | Software upgrade has failed.   |
| OFF           | Optical signal is present and operating normally.  |

### WLAN

|          |  |
|----------|--|
| ON       | WiFi function is active (+2- -6 range) |
| Flashing | Indicates active data TX/RX            |
| 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                        |        |