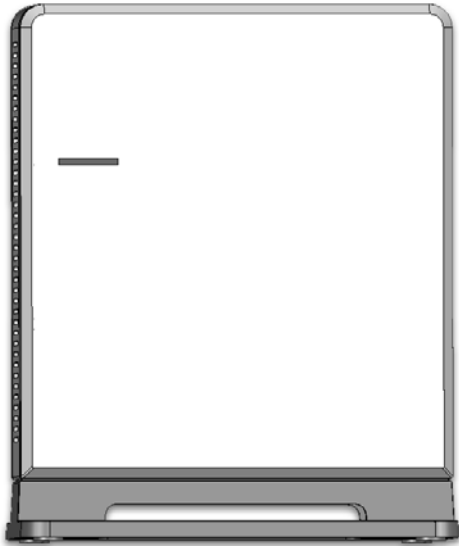


DPH-SO16



Quick Install Guide

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Introduction

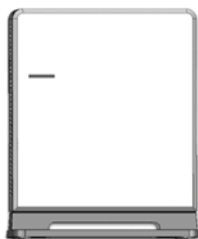
This Chapter provides an overview of the device's features and capabilities.

This Access Point is a high-capacity enterprise Femtocell product that provides consumers with low cost calls using their 3G handsets and home broadband connection. This product will bring high-quality 3G coverage to the homes or offices. Just follow these simple instructions then you can take full advantage of the 3G network.

Package Contents

The following items should be included:

3G Access Point



Ethernet cable



Main power supply



If any of the above items are damaged or missing, please contact your dealer immediately.

Features

- Supports the Ubiquisys Enterprise FemtoEngine software
- Supports Band 2/5 WCDMA with GSM sniff capability
- Delivers UMTS applications to 3G client devices on indoor locations
- Supports Integrated Omni-directional antennae
- Designed for enterprise and hotspot types of deployments
- Up to 16 calls can be supported at the same time
- Maximum Tx Power of 24dBm
- Two Ethernet 10/100 ports for Internet connection and Power-over-Ethernet (PoE) function
- Single LED to indicate the status information
- Internal SIM socket
- External power supply

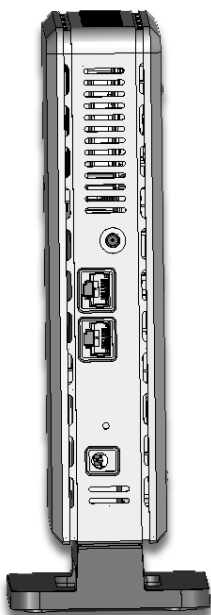
LEDs

Front-mounted LED

The device has 1 LED.

Femto (Red/Green)	<ul style="list-style-type: none">• Green														
	<table border="1"><thead><tr><th>LED State</th><th>Definition</th></tr></thead><tbody><tr><td>On</td><td>Power on.</td></tr><tr><td>Fast Flashing</td><td>Initialization or temporarily out of service.</td></tr><tr><td>Slow Flashing</td><td>One or more calls are currently active.</td></tr><tr><td>Sequence of two flashing lights</td><td>No calls can be received currently.</td></tr></tbody></table>	LED State	Definition	On	Power on.	Fast Flashing	Initialization or temporarily out of service.	Slow Flashing	One or more calls are currently active.	Sequence of two flashing lights	No calls can be received currently.				
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Rear Panel



GPS Connector (Optional)	The external antenna connector provides connection for an active external GPS antenna.
PoE Port	Use a standard LAN cable (RJ45 connector) to connect the router.
Computer Port	Use a standard LAN cable (RJ45 connectors) to connect your PC to the port.
Reset	This button is used to reset the device to factory default settings.
Power Port	Connect the supplied power adapter here.

Initial Installation

This Chapter covers the physical installation of the device.

Procedure

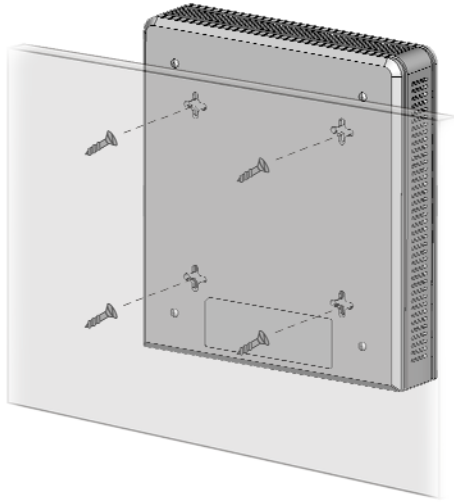


1. Connect the supplied power adapter to the device.
2. Connect the router to the WAN(PoE) port on the device.
3. Plug the power supply into the main socket.
4. The green light will stop flashing when the device is read to use. It may take a few minutes to complete the process. If the green light does not stop flashing after 30 minutes, please call the operator for help.

Wall Mounting

The device can be either placed on a table using the stand provided or mounted on the wall.

1. Mark four points where you would like to mount the device.
2. Screw in 2/3 of the length of the mounting screws into the wall.
3. Hook the mounting holes located at the bottom of the device into the mounting screws.
4. Make sure the device is firmly fixed on the wall.



Specifications

General Specification

Connectivity	<ul style="list-style-type: none"> 2 x SMA-J type connectors for internal/external antennae 2 x 10/100 Ethernet ports IEEE 802.3/IEEE802.3i/IEEE802.3u/IEEE802.3x
SIM card slot	One
Power Supply	12V/2A, 100~240V
Operating Requirement	<p>Operating Temp. 0°C to 40°C</p> <p>Storage Temp. -5°C to 45°C</p> <p>Operating Humidity 5% to 90% Non-Condensing</p> <p>Storage Humidity 5% to 95% Non-Condensing</p>
Reset button	One
LED	1 Status LED
Housing	178mm(W)x235mm(H)x60mm(D)

RF Specifications

Parameter	UMTS	GSM Listen Mode
Frequency	UMTS band Band 2: DL: 1930-1990MHz, UL: 1850-1910MHz Band 5: DL: 869-894MHz, UL: 824-849MHz	GSM Band 2 DL: 1930 - 1990 MHz GSM Band 5 DL: 869 - 894 MHz
Bandwidth	5MHz	200KHz
Beamwidth	Omni	Omni
Power Rating	\cong 20dBm	N/A (Rx only)
Antenna Gain	\leq 2dbi	\leq 2dbi
Rx Sensitivity	-112dBm	-112dBm

Regulatory Requirements

CE Marking

CE Mark	Directive 1999/5/EC
EMC and Radio Compliance	ETSI EN 301 908-1 V3.2.1:(2007-05)
EMC	ETSI EN 301 489-1 V1.6.1 (2005-09) and Draft ETSI EN 301 489-1 V1.7.1 (2006-07) Version EN 301 489-1 V1.8.1 (2008-04) ETSI EN 301 489-23 V1.3.1: (2007-08)
EMF	EN 50371:2002 EN62311:2008 and EN50385
RoHS	European Directive 2002/95/EC (RoHS)
WEEE	EC Directive on Waste Electrical and Electronic Equipment (WEEE)
REACH	REACH compliant

Product Reliability

MTBF	65000 hrs @ 20°C, 24hrs/day
Product Life	≥ 5 years

Safety Information

All instructions, warning and caution statements that accompany this equipment must be strictly followed at all times to ensure its safe use. Observe all warning and caution symbols that are fixed to this equipment. This electrical equipment is designed with the utmost care for the safety of those who install and use it. However, when using this device, basic safety precautions should always be followed to reduce the risk of fire and injury to persons, and the dangers of electric shock and static electricity. Do not cover the device or block the airflow to the device with any other objects. This product was qualified under test conditions that included the use of the supplied cables between system components. To be in compliance with regulations, the user must use the cables supplied with the unit and install them properly. This includes the power adapter that is provided. Place the unit to allow for easy access when disconnecting the power adapter from the mains wall outlet. Operate this product only with the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your dealer or local electricity company. Do not use this product near water, for example a swimming pool or a bathroom. Keep the device away from excessive heat and humidity and keep the device free from vibration and dust. Wipe the unit with a clean, dry cloth. Never use cleaning fluid or similar chemicals. Do not spray cleaners directly on the unit or use forced air to remove dust. Avoid installing or using this product during an electrical storm. There may be remote risk of electric shock from lightning. During a lightning storm for added protection please unplug it from the wall outlet and disconnect all cables. This will prevent damage due to lightning and power surges. For safety reasons, only authorized service technicians should open the device. If the device is opened the warranty will become void. The device may affect medical equipment and so please take account of any technology restrictions with this equipment. This device, like other radio devices, emits radio frequency electromagnetic energy, but operates within the guidelines found in radio frequency safety standards and recommendations.

It is recommended that the minimum operating distance from the installed Access Point to persons is 20cm.

Ensure the Access Point is turned off when inserting or removing the SIM card. Do not bend or scratch your SIM card. Keep it away from static electricity, water and dirt.

FCC Regulations:

§ 15.19 (a)(3)

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.

§ 15.21

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

§ 15.105 (b)

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 into 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.

RF Exposure Information

This equipment complies with radio frequency (RF) exposure limits adopted by the Federal Communications Commission for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.