

# Asanté FriendlyNET FH2016P 16-port Dual-speed Fast Ethernet Hub User's Guide

## INTRODUCTION

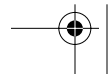
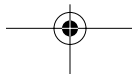
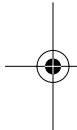
Thank you for your purchase of the Asanté FriendlyNET FH2016P. The FriendlyNET hub can increase your workgroup's efficiency while providing a smooth and easy upgrade from 10Mbps to 100Mbps Ethernet.

The Asanté FriendlyNET FH2016P has 16 RJ-45 Ethernet ports. Each port is capable of automatically sensing connection speed. Each port may be manually configured using the DIP switches on the rear panel of the hub. Concise LED indicators on the front panel provide a summary of the hub's operation. Network expansion is aided by a pushbutton controlled uplink port. The Asanté FriendlyNET FH2016P may be installed on the desktop or in an industry-standard 19-inch rack mount.

## Package Contents

The package checklist is as follows:

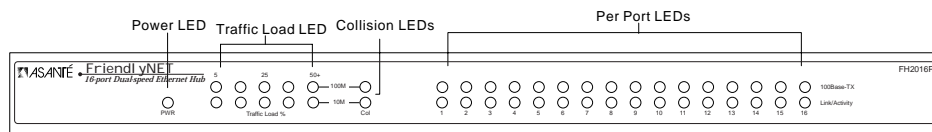
- Asanté FriendlyNET FH2016P Dual Speed Hub
- Power Adapter
- User Manual
- Self-adhesive rubber pads
- Wall mount screws





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### Front Panel information



**Table 1: Power LED's**

| LED Indicator | Color | Description              |
|---------------|-------|--------------------------|
| Power         | Green | Power On                 |
|               | Off   | Power off or LED failure |

**Table 2: 100Base-TX LED's**

| LED Indicator | Color | Description  |
|---------------|-------|--|
| Link          | Green | The port is connected to a link partner at 100Mbps |
|               | Off   | No 100Mbps link partner                            |



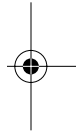
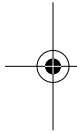


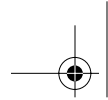
**Table 3: Per port - Link/Activity (1-16)**

| LED Indicator | Color          | Description                                  |
|---------------|----------------|--|
| Link          | Green          | The port is linked                           |
|               | Off            | The port isn't linked                        |
| Activity      | Blinking Green | There is data being received or transmitted. |

**Table 4: Traffic Load LED's**

| LED Indicator        | Color                 | Description                                  |
|----------------------|-----------------------|--|
| None Lit             | Off                   | No traffic load at present                   |
| First One            | Green                 | The traffic load of this segment exceeds 5%  |
| First Two            | Green                 | The traffic load of this segment exceeds 15% |
| First Three          | Green                 | The traffic load of this segment exceeds 25% |
| First Four           | Green                 | The traffic load of this segment exceeds 35% |
| First Four and Fifth | 4th Green & 5th Amber | The traffic load of this segment exceeds 50% |



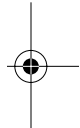
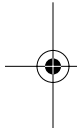


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**Table 5: Collision LED's**

| LED Indicator | Color          | Description                                       |
|---------------|----------------|---|
| 100M LED      | Blinking Amber | There are collisions detected on the 100M segment |
|               | Off            | No collisions are detected on the 100M segment    |
| 10M LED       | Blinking Amber | There are collisions detected on the 10M segment  |
|               | Off            | No collisions are detected on the 10M segment     |

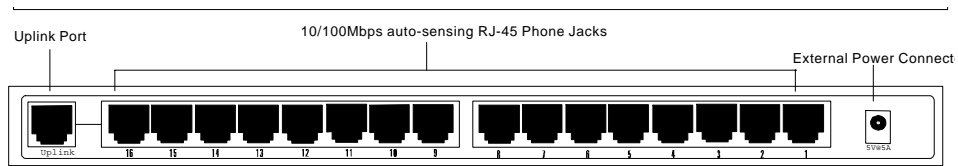




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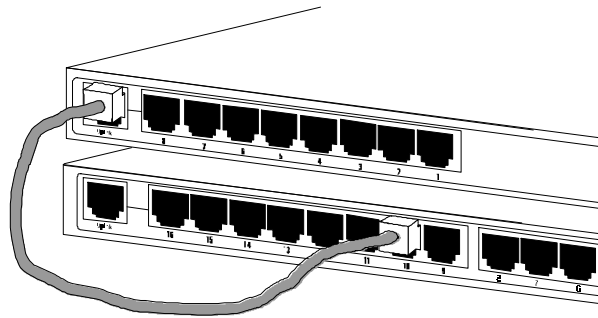
### Rear Panel

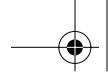
Users can use these ports to connect 10Base-T or 100Base-TX network devices to the Asanté FriendlyNET FH2016P 16 port hub. All of the ports on the Asanté FriendlyNET FH2016P are auto-sensing to 10Mbps or 100Mbps.



### Uplink Port

Port 16 and the uplink port cannot be used simultaneously. If you are using the uplink port (as shown in the diagram below) and you have port 16 occupied, neither port will operate.





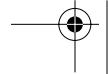
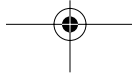
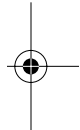
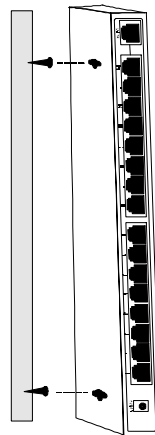
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### Wall Mounting the Asanté FriendlyNET FH2016P

The hub can be mounted to the wall or to the surface of a countertop by using the supplied bracket as shown below.

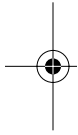
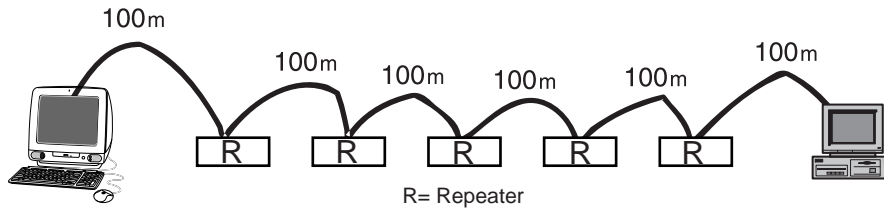
1. Measure the distance between each keyhole (measure from the center of the keyhole) on the Asanté FriendlyNET FH2016P. Make a mark for each screw on the surface.
2. Screw each of the enclosed 0.5 inch wood screws into the surface, leaving approximately 1/4 inch of the threads exposed
3. Hang the Asanté FriendlyNET FH2016P on the wall using the keyholes provided on the bottom of the Asanté FriendlyNET FH2016P.





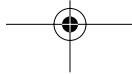
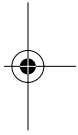
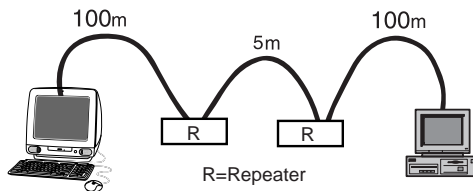
### Ethernet Network Configuration Rules

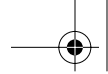
In the IEEE 802.3 10Mbps Ethernet standard, the maximum length of cable between the two network devices must not exceed 100m. If you are connecting multiple repeaters together in series, ensure that there are no more than four 10Mbps repeaters between any two devices on your network.



### Fast Ethernet Network Configuration Rules

In the IEEE 802.3u 100Mbps Fast Ethernet standard, the maximum length of cable between two network devices must not exceed 100m. If you are connecting multiple repeaters together in series, ensure that there are no more than two 100Mbps repeaters between any two devices on your network, and that the total cable distance between the two devices does not exceed 205m.

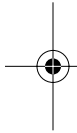


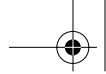


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### Product Specifications

|                                   |   |
|-----------------------------------|---|
| <b>Standards supported</b>        | IEEE802.3, IEEE802.3u, Class II Repeater                          |
| <b>10/100Base-TX UTP/STP Port</b> | 16 N-WAY ports  |
| <b>Uplink port</b>                | Port #16  |
| <b>Cabling</b>                    | UTP/STP Category 3, 4, 5 (100 ohm impedance)                      |
| <b>Input voltage</b>              | 100–240 VAC, 50/60Hz  |
| <b>Output voltage</b>             | 5 VDC, 5A   |
| <b>Operating temperature</b>      | 0–40° C (32–104° F)   |
| <b>Operating humidity</b>         | 10–95%  |
| <b>Certification</b>              | FCC Class A, VCCI A, CE Class A                                   |
| <b>Dimensions</b>                 | 298mm (W) x 153mm (D) x 27mm (H)<br>11.7" (W) x 6" (D) x 1.1" (H) |





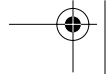
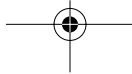
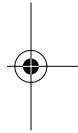
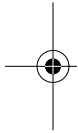
## Contacting Technical Support

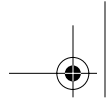
To contact Asanté Technical Support:

|                     |   |
|---------------------|---|
| Telephone           | (800) 622-7464  |
| Fax                 | (801) 566-3787  |
| E-mail              | support@asante.com  |
| World Wide Web Site | <a href="http://www.asante.com">http://www.asante.com</a> |

### Technical Support Hours

6:00 a.m. to 5:00 p.m. Pacific Standard Time USA, Monday - Friday.





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