

Attachment

User's Manual

SOHOware™ Fast

5/8-port 100Base-TX Fast Ethernet Hub

SFH105A/SFH108A

Installation Guide

P/N: 85-500105-00

Revision: A1

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TRADEMARKS

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FCC WARNING

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 when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. However, this is not a 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.

NOTICE:

1. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord must be used in order to comply with emission limits.

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Packing List

This package should contain the following items:

- One SFH105A 5-port Fast Ethernet mini hub
or
One SFH108A 8-port Fast Ethernet mini hub
- AC to DC (+12VDC 800mA) Power Adapter
- This Quick Installation Guide

Introduction

Features

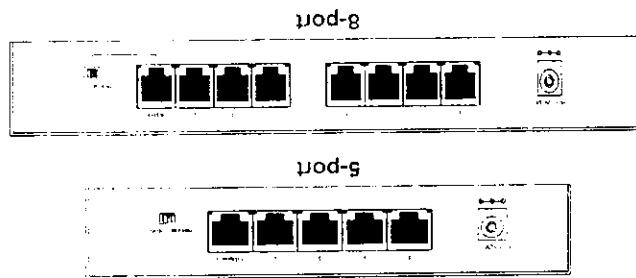
- VLSI technology application eliminates the need for cooling fans, ensuring silent operation and increasing reliability by eliminating a potential point of failure.
- Ten times the speed and performance of traditional Ethernet networks.
- Uplink switch provides easy interconnecting hub expansion: no mis-plugging problems.
- Auto-partition isolates problem connections from the rest of the network.
- Complies with IEEE 802.3u, 100Base-TX Class II repeater standards: 2 cascading Fast Ethernet hubs possible.
- Color-coded LEDs permit "At-a-glance" monitoring and troubleshooting.
- Compact footprint design saves space, saves money.
- Easy installation: just plug it in and turn it on.

Hardware Description

The Front Panel

The LED indicators on the front panel will help you monitor the status of each port and the connected segments. There are 5 LED groups on the front panel: Power (PWR), Collision (COL), Link Activity, Error and Utilization.

LED Function	Color	Description
Power	Green	Lit : Power On Unlit : Power Off
Collision	Amber	Lit : Data collision occurring
Link/Activity (each port)	Green	Lit : Indicates an adapter connected to the hub Flashing : Data being transferred
Error (each port)	Yellow	Flashing : Data error occurring Lit : Indicates partition and isolation of port
Utilization	Green	Indicate hub traffic in terms of percentage of Fast Ethernet bandwidth

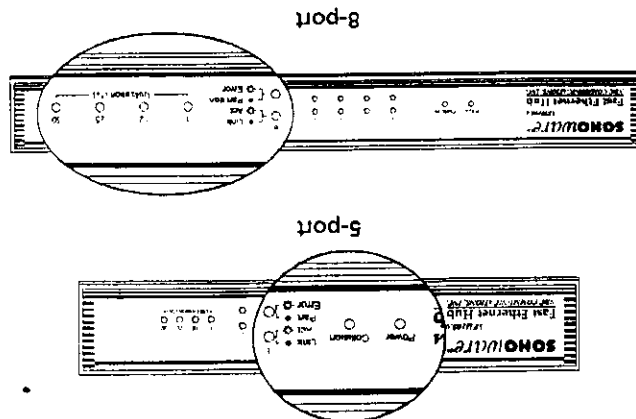


On the rear panel are the DC power socket, 5 or 8 Shielded Twisted-Pair (RJ-45) ports (according to model), and one uplink slide switch.

Use any of the RJ-45 ports for connection to a 100Base-TX node using Category 5 Twisted-Pair cabling. The uplink port provides cascading capabilities to a second 100Base-TX Fast Ethernet hub.

The DC power socket accepts DC power input from -9V to +12V. The 8-port Mini hub also features an internal switch power supply for wide range DC power input and improved reliability.

The Rear Panel



Hardware Installation

Quick Installation Procedure

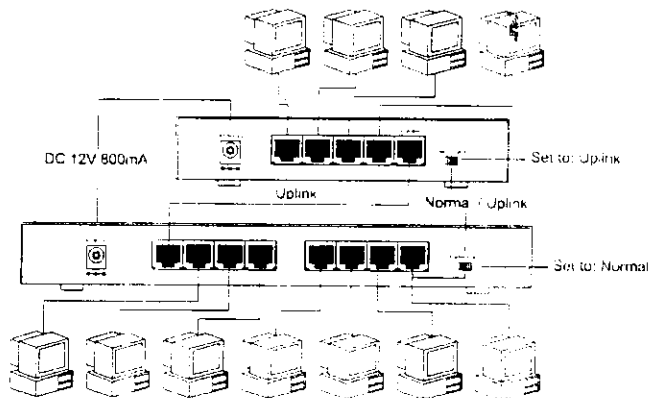
1. Place hub on a smooth flat surface.
2. Connect DC power adapter to jack on rear panel and plug in.
3. Connect workstations to hub using Category 5 Twisted-Pair cabling.

Note: Insert RJ-45 connector into port on hub and connect other end to RJ-45 port on Fast Ethernet card in workstation. Distance between the hub and the workstation can be no more than 100 meters.

Connect each device (up to 5 or 8) on your network, as in Step 3.

Uplinking Multiple Hubs

If you want to connect more devices than the hub has ports, you can use Port #1 as an uplink port to connect another hub. In compliance with IEEE802.3u Class II specifications, two repeaters can be cascaded using a 5-meter cable in a single collision domain.



1. Disconnect power supply.
2. Connect a Category 5 Twisted-Pair cable to the Uplink port (Port # 1) of the first hub. Set the Uplink Switch to Uplink mode.
3. Connect the other end of the Category 5 Twisted-Pair cable to any empty port of the second hub. Set the Uplink Switch to Normal (node) mode.
4. Connect workstations to the hub using Category 5 Twisted-Pair cabling.
5. Connect each device (up to 5 or 8) on your network using the same process as in Step 3.
6. Insert the DC power adapter plug in the socket on the hub's rear panel, and connect to AC socket.

Note: Do not connect Uplink Port # 1 of first hub to Uplink Port # 1 of second hub when the Uplink switches are set to the same mode.

Product Specifications

Model	SFH105A	SFH108A
Standard	IEEE802.3u, 100Base-TX Class II Repeater	
Number of ports	5	8
Uplink port	Hub Port # 1 (Slide Switch)	
Cable Lengths	5 Meters for hub to hub 100 Meters for hub to workstation	
Cabling	Twisted-Pair Category 5 wiring	
Expandability	5 ports	14 ports
LEDs	Power – Green	
	Collision – Amber	
	4 Utilization – Green	
	5 Link Activity – Green	8 Link Activity – Green
	5 Error – Yellow	8 Error – Yellow
Power Adapter	AC to DC (+12V 800mA)	
Temperature	0 to 50°C ambient	
Humidity	5% to 95% non-condensing	
Dimensions	245 x 120 x 30 mm	160 x 120 x 30 mm
Certification	FCC B, CE, VCCI	
Warranty	Hub unit: Lifetime limited Power Supply: 1 year	

EC DECLARATION OF CONFORMITY

For the following equipment:

Product Name : 100Base-TX Fast Ethernet Hub

Model Number : SFH105A/SFH108A

Produced by:

Manufacturer's Name : NATIONAL DATACOMM
CORPORATION

Manufacturer's Address : 2F, NO. 28, INDUSTRY EAST 9TH
ROAD
SCIENCE PARK, HSIIN-CHU
TAIWAN, R.O.C.

is hereby confirmed to comply with the requirements set out
in the Council Directive on the Approximation of the Laws
of the Member States relating to Electromagnetic
Compatibility (89/ 336/ EEC). The NFE100TA meets or
exceeds the following EMC standards:

EN 50081-1 standard :

EN 55022 / CISPR Pub. 22, Class A

EN60555-2

EN 50082-1 standard : 1992

EN61000-4-2 : 1995

EN61000-4-3 : 1996

EN61000-4-4 : 1995

The manufacturer/importer is responsible for this
declaration:

Company Name : NDC (EUROPE) CO. LTD

Company Address : 1, EARLSFORT CENTRE, HATCH
STREET, DUBLIN 2, IRELAND

Person authorized to make this declaration:

Name : CHIN-TU WU

Position/Title : MANAGING DIRECTOR

Date

Legal Signature