Attachment

User's Manual

SOHOware™ Fast

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

SFH105A/SFH108A
Installation Guide

P/N :85-500105-00
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TRADEMARKS

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other names mentioned in this document are
trademarks/registered trademarks of their respective owners.

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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Table of Contents

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
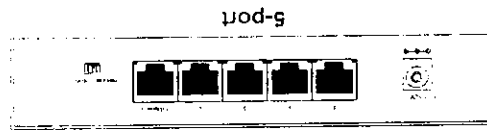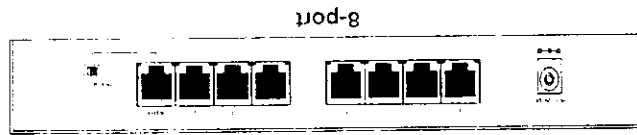- This Quick Installation Guide

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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.

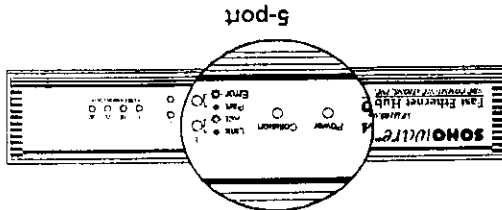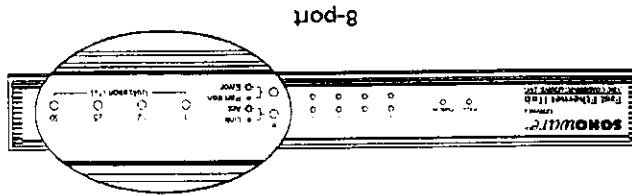| LED Function	Color	Description
Power	Green	Lit : Power On Unlit : Power Off
Collision	Amber	Lit : Data collision occurring
Link/Activity (each port)	Green	Lit : Indicates an adapter connected to the hub Flashing : Data being transferred
Error (each port)	Yellow	Flashing : Data error occurring Lit :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

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Hardware Installation
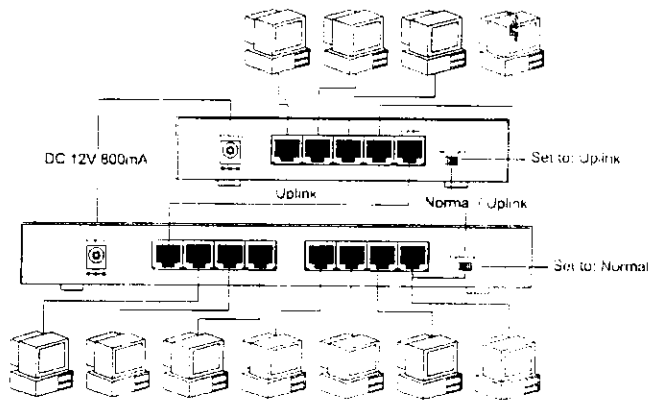
Quick Installation Procedure

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 5 Error - Yellow	8 Link/Activity – Green 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	

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, HSIN-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

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