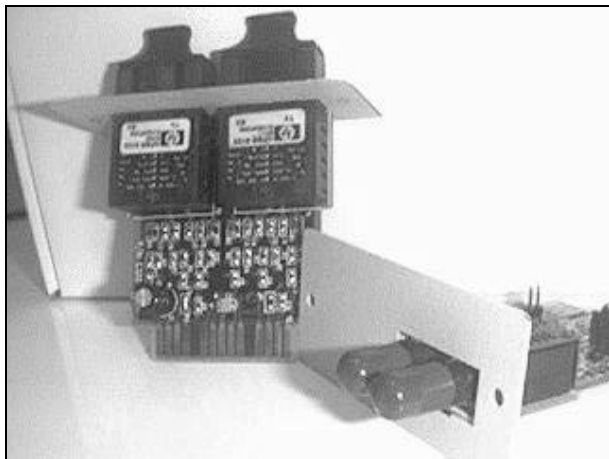Dual Speed Hub
DH-1600 / DH-2400 Modules
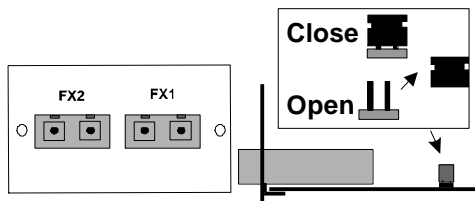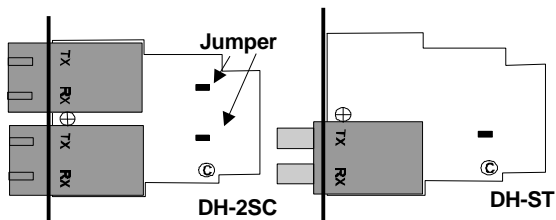

DH-SC / DH-ST
DH-2SC / DH-2ST
DH-BTX / DH-BSC / DH-BST

Quick Installation Guide

PLANET
Networking & Communication

Product Outlook

Fiber-Optic Extender

Jumper

DH-2SC

DH-ST

FX2 FX1

Close

Open

Close: Fiber Port enable (Default)
Open: Fiber Port disable

Switching Extender

DIP Switch

LED Indicators

TX

RX

Switching board

DH-BST

100Base-FX	100Base-TX
● LINK ⬛⬛ ○	● LINK/ACT ▢ ○
FDX HDX ● ACT	● FDX
DH-BSC/DH-BST	**DH-BTX**
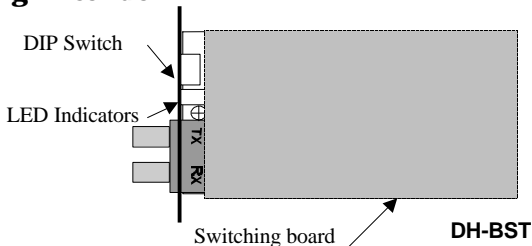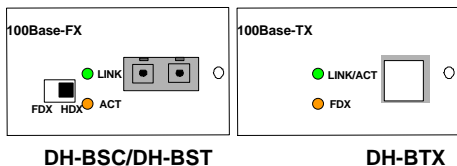
Installation

Before your installation

You can connect the DH-1600/DH-2400 to another devices through its expansion slot. The modules support single or dual port of 100Base-FX fiber-optic ST/SC interface or one port switch module. And they are all shared with the last one/two port of DH-1600 and port#12, port#24 of DH-2400.

Before the wiring, you should note the following points:

1. The fiber-optic cable

The cable should be 50um/125 or 62.5um/125 multi-mode fiber-optic cable with ST or SC Connector.

2. The wiring distance

Due to the roundtrip delay of Fast Ethernet Class II Repeater hub should be within 512-bit time, the maximum connection length for fiber-optic wiring will as followings.

Table 1: For DH-ST/SC,DH-2ST/2SC	
Connection Type	Limitation
One DH-1600/DH-2400 only One Fiber link to DTE (PC, Switch)	208 meters
One DH-1600/DH-2400 only Two Fiber links to DTEs (PC, Switch)	160 meters
DH-1600/DH-2400 (already cascaded with another Class II repeater hub) Fiber links to DTE (PC, Switch)	111 meters

Table 2: For DH-BST/BSC	
Connection Type	Limitation
Half-Duplex To Hub	Follow the limitation in Table 1.
Half-Duplex To DTE (PC, Switch)	412 meters
Full-Duplex To DTE (PC, Switch)	2000 meters

Table 3: For DH-BTX	
Connection Type	Limitation
To PC, Hub, Switch	100 meters Cat. 5 UTP/STP Cable

3. Duplex mode (DH-BST/BSC)

The duplex mode should follow the connected device. Only if the DTE (Data Terminal Equipment) like PC, switch support and set to full-duplex can the DH-BST/BSC set to full-duplex mode.

Installation Steps

You can connect the hub to another 100Base-TX/FX Switching hub or to a PC through the fiber-optic module or switching module. Make the connection as following steps:

1. Make sure the last one or two port of DH-1600 or port#12, port#24 of DH-2400 on the hub is free.
2. Power Off the hub.
3. Remove the two screws of the expansion slot of the hub.
4. Make sure the jumpers on the module are closed. If the jumper is opened, the related port will be disabled.
5. Slide-in the module follows the plastic chute with care. Secure the two screws after slide in the module.
6. Connect the fiber-optic connector (ST or SC type) tightly. Please make sure the fiber connections are crossed. That is, the TX port of the module to the RX port of the connected PC or switch, and RX to TX.
7. Power on the hub and the connected device, the 100Mbps LED in the front panel of that port (ie: FX1 or FX2 port) should light and Link LED light to indicate the good link of the two fiber-optic devices.

LED Indications

Front Panel Indication		
LED	Status	Description
100M	Steady Orange	FX1, FX2 (DH-2ST/2SC) light to indicate port is being used at 100Mbps mode as module attached
Link /Act	Steady Green / Blink Green	FX1, FX2 (DH-2ST/2SC) light to indicate port is being connected. Blink to indicate the port is receiving data packets.
Module LED Indication (DH-Bxx series only)		
LINK/ACT	Steady Green / Blink	Light as port is being connected. Blinks as port is receiving data packets
FDX (DH-BTX)	Steady Orange	Light as this port has successfully detects 100Mbps full-duplex mode with another Auto-Negotiation device.