User's Manual

MDU-0115B/0116TX/0117FXT/0118FXC

for
Fast and Dual-Speed Hub
Modules

(Revision 1.0)

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The following sections describe the hardware function, usage and specifications of four different modules

1. MDU-0116TX 10/100Base-TX Nway Switch Module

<u>**Hardware Description**</u>

This module provides one RJ45 port with fully function of 10/100Mbps Nway switch for user to expand network size in a 100/200 meters distance.

Port's Link
Color: Green
Label: Link
Function: The port on the hub is assigned one LED for monitoring port "Good Link". The LED is normally "Off" after the power on operation. The LED will light up steadily to show "Good Link" when port is been connected.

Port's Activity
Color: Yellow
Label: Act
Function: The port on the hub is assigned one LED for monitoring port's data traffic. The LED is normally "Off" after the power on operation. The LED will flash rapidly to show data passing in and out the port.

Port's Speed
Color: Yellow
Label: 10/100
Function: The port on the hub is assigned one LED to indicate the running speed. The LED is normally in state of "Off" after power on operation. If the connection is running at 100Mbps, the LED will keep "On", otherwise, keep "Off" when it is at 10Mbps state.

Port's Full Duplex Mode
Color: Yellow

Label: FDX

Function: The port on the hub is assigned one LED to indicate the running mode.
The LED is normally in state of "Off" after power on operation. If the connection
is running at full duplex mode, the LED will keep "On", otherwise, keep "Off"
when it is at half duplex mode.

Note:
The port of transmit and receive signals are in normal position, i.e. pin 1 &2 for
transmitting and pin 3 &6 for receiving just like NIC's. It means that user can use
normal CAT5 twisted- paired wire connect one end to module and the other end to
another hub's station port.

Installation Procedure

1. Turn hub off.
2. Remove screws from the blank bracket with label "Expansion Slot"
3. Lift the handles, and let both edges of PCB following the "Plastic Guide" slide
into the end of slot, then the surface of front panel of module will fit into the slot
exactly
4. Fasten the screws
5. Turn main hub on
6. The corresponding LED will light up.

Specifications

Standard: IEEE802.3/IEEE802.3u
Network Media: 100BASE-TX – UTP/STP category 5 cable
                     10BASE-T – UTP/STP category 3 or 5 cable
Connector: one RJ-45 ports for 10/100Mbps
LED indicators: Link, Activity, Speed and FDX LEDs
Dimension: 110mm(W) x 75mm(L) x 34mm(H)
Temperature: Operating -- 0?　to 50?

Storage -- -20? to 70?
Humidity: Operating – 10% to 90% RH
Storage – 5% to 90% RH
Input Power Requirement: 5V, 1.0A max.
Registrations: FCC Part 15 Class A, CE

2. MDU-0118FXC / MDU-0117FXT 100Base-FX SC/ST Optic Fiber Switch Module

These modules provide one 100Base-FX SC/ST optic fiber port with full switch function for user to expand network size in 2000 meters distance.

The optic fiber port lets user has the choice to link this hub to optic fiber environment. There are two kinds of connector -- ST or SC types. This port is running in 100Mbps half and full duplex mode. The connection rule and limitation are same as normal optic fiber repeater.

The LED functions are same as TP module – Link, Activity, Speed and FDX.

The installation procedure is same as 8 port TP module.

Specifications

Standard: IEEE802.3/IEEE802.3u
Network Media: 100Base-FX – Multi-mode 62.5/125 micron fiber optic cable
Connector: SC/ST optic fiber connector
LED indicators: Link, Activity, Speed and FDX LEDs
Dimension: 110mm(W) x 91mm(L) x 34mm(H)
Temperature: Operating -- 0? to 50?
Storage -- -20? to 70?
Humidity: Operating – 10% to 90% RH

Storage – 5% to 90% RH
Input Power Requirement: 5V, 1A max.
Registrations: FCC Part 15 Class A, CE

3.   MDU-0115B   10Base-2 BNC Switch Module

This module provides one BNC port for connecting the hub to 10Base-2 coaxial cable network easily. The cabling way must follow the rules of IEEE802.3 10Base-2 coaxial cable, i.e. user need "T" connector and 50ohm terminator.

The installation procedure is same as TP module.

Specifications

Standard: IEEE802.3
Network Media: 10Base-2 – RG58A/U coaxial cable
Connector: BNC connector 10Mbps
LED indicators: None
Dimension: 110mm(W) x 91mm(L) x 34mm(H)
Temperature: Operating -- 0?   to 50?
     Storage -- -20?   to 70?
Humidity: Operating – 10% to 90% RH
    Storage – 5% to 90% RH
Input Power Requirement: 5VDC, 1A max.
Registrations: FCC Part 15 Class A, CE