OvisLink Technologies

OV220RC16

16 Slot Rack Mount Chassis

User's Manual

(Ver 1.0)

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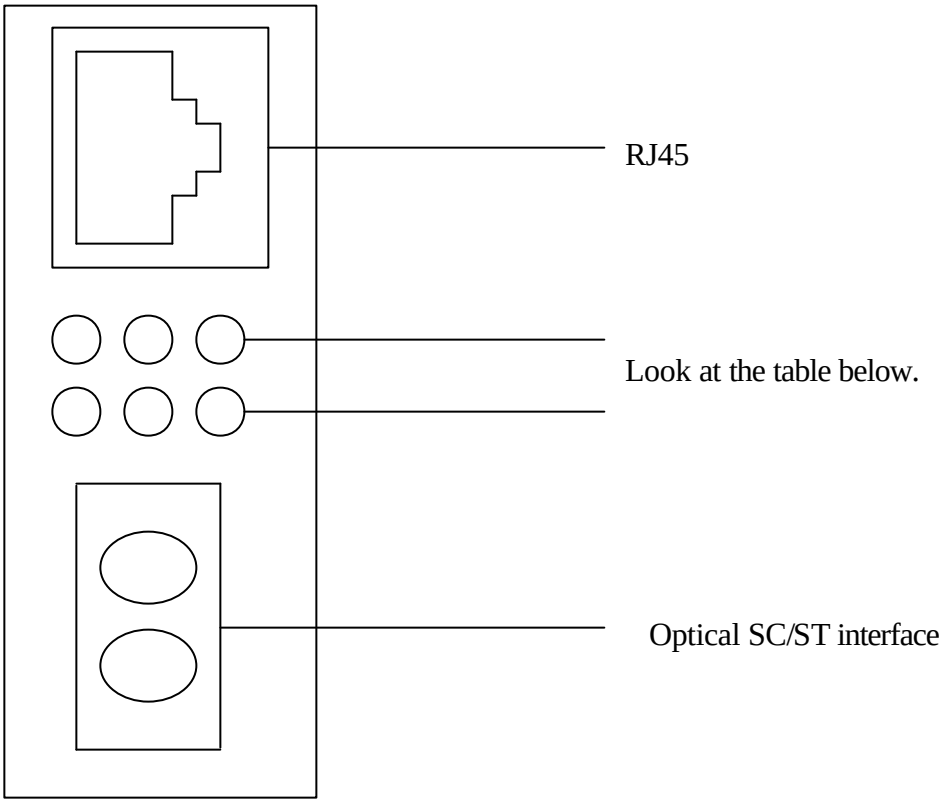
1. Introduction

The OV220RC16 chassis uses OV220 Series Media Converters that are primarily designed for large, high speed/bandwidth demanding workgroups that require expansion of the fast Ethernet network. They can be used to extend the transmission distance between two Fast Ethernet Twisted-pair devices via fiber cable transparently with no performance degradation.

The OV220 Series Media Converter includes 100Mbps and 10/100Mbps. There are two types of Media Converters, which are "Stand Alone Media Converters" and "Media Converters Modules". OV220 Series Media Converters can transmit 2KM(MM), 20KM, 40KM, 60KM and 120KM.

The chassis has up to 16 slots for the OV220 Series Media Converter Modules. The central power supply is 48V(DC).

2. OV220 series Media Converter Module front board description



LED	COLOR	FUNCTION	DESCRIPTION
FX_R	Green	Fiber Port	Green for 100Mbps
FX_L/A	Green	Fiber Port Link/Activity	LED stable for link LED blinking for action
TX_R	Green	RJ45	Green for 100Mbps
TX_L/A	Green	RJ45 port Link/Activity	LED stable for link LED blinking for action
FDX	Green	Full & Half	LED on when running on full duplex
PWR	Green	Power	Power On

3. OV220 Series Media Converter Light Indication Description

There are 6 LED Lights on the front board. They indicate all kinds of work status. Details as follows.

Left 3 Lights indication below:

ACT – Twisted pair interfaces connect/receive Light, "Lights up" when twisted pair link is connected; "Flashes" when Media Converter is receiving data; "Lights off" when the twisted pair is disconnected.

CVT – Data transmitting Light. When "Flashing", data has been transmitted and exchanged.

FDX – Full/Half Duplex Light. "Lights up" when full duplex; "Lights off" when half duplex.

Right 3 lights indications below:

ACT – Optical Fiber connect/receive light. "Lights up" when optical link is connected; "Flashing" when optical link is well connected and is receiving data; "Lights off" when optical link is disconnected.

CVT – Data transmitting light. "Flashes" when data has been exchanged.

PWR – Power indication light.

4. Installation and Usage

Make sure whether fiber cable (SM or MM).

4.1.1 Installation

Plug the power supply in the power supply slot, management card in the management slot and media converter cards in left 15 slots. Also put the 19-inch rack on the shelf.

4.1.2 Getting Started

(1) Make sure the correct connection is between the optical fiber cable and Media Converter. If optical fiber cable is SM (single mode), please connect to SM converter. If cable is MM (multimode), please connect to MM converter. If cable is TX connect to RX converter.

(2) Make sure requirement of power supply and correct connection.

(3) Make sure work mode between media converter and equipment connected.

OV220 Series Media Converters all support auto-negotiation, if equipment connected has auto-negotiation mode. If different working mode required, please make sure same working mode are set between Media Converter and Ethernet equipment. If equipment connected to Media Converter were set on 100Mbps/half duplex, because of limitation of CSMA/CD protocol, distance between switching and optical fiber does not exceed 400m.

(4) DTE = MDI mode

MPR = MDI-X mode (cross over)

(5) Power on

(6) Connect the twisted pair to RJ45 port. Optical fiber cable to SC/ST port. Pins definition of RJ45 (MDI mode):

Pin1-TX+	Pin5-Not Used
Pin2-TX-	Pin6-RX-
Pin3-RX+	Pin7-Not Used
PIN4-Not Used	Pin8-Not Used

Pins definition of RJ-45 (MDI-X mode):

Pin1-RX+	Pin5-Not Used
Pin2-RX-	Pin6-TX-
Pin3-TX+	Pin7-Not Used
PIN4-Not Used	Pin8-Not Used

When media converters connect PC just push cross-connect button to MDI-X mode.

5. **Trouble shooting**

Checking Media Converter working statue after power on, referring to Media Converter indication light. If work abnormally, refer to following steps with troubles checking.

(1) No Power indication.

OV220 has LED light indicate power supply. If LED light off, check connection of power plug/power supply of input match media converter power / OV220 rack power supply installation.

(2) Left light off.

First check cross/connect, then check RJ45 plug.

(3) Right light link off.

Check patch cork type, and connector plug in.

(4) All lights on, but link does not work

Check if Ethernet equipment connected and if the Media Converter works normally.

Any problems similar to the above situations then use the solutions above. If problem persists, please contact your suppliers.