

CM-121 Fiber Converter Series

10/100/1000BaseT to Gigabit Fiber Media Converter

- Comply with IEEE 802.3, 802.3u, 802.3ab and 802.3z
- Build in Link Loss Forwarding Technology
- MDI/MDI-X Auto-Crossover supported
- DIP switch for Auto negotiation, Half/ Full Duplex and LLF, Converter mode
- Support Q-in-Q Double Tag VLAN, DHCP Client, SNMP v1 and v2c



OVERVIEW

Lantech CM-121 is a 10/100/1000 Base T to Gigabit fiber media converter with managed function which including 801.q VLAN, SNMP v1/ v2c and DHCP. The converter can be managed through Web and SNMP interface. Lantech CM-121 is designed to extend the transmitting distance of optical-fiber network.

Lantech CM-121 is fully compliant with IEEE 802.3, 802.3u, 802.3ab & 802.3z standards and supports 8 DIP switches to adjust transmitting mode and Link Loss Forwarding (LLF)

feature. The practical feature of LLF is essential for media converter to alert MIS about the one end connection lost. It will cut off transmission between two converters immediately when one end is disconnected.

Lantech CM-121 supports Jumbo frame up to 9K bytes on switch mode so it is suitable for the extension of backbone network where could have jumbo packets on the network.

FEATURES & BENEFITS

- Fully complies with IEEE 802.3, 802.3u, 802.3ab, 802.3z Standards
- 10/100/1000T to gigabit Fiber (Mini GBIC) Media converter
- Built in Link Loss Forwarding Technology
- 10/100/1000T support Auto MDI/MDI-X
- Support Selectable ISP Ethernet Tag Type
- Support Flow Control
- Jumbo frame 9K bytes
- Q-in-Q Double Tag configuration
- Support Bandwidth Control
- DHCP Client
- SNMP/ Web Managed interface
- Support SNMP v1 and v2c
- HTTP Firmware Upgrade

SPECIFICATION

Standards	IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T IEEE 802.3z 1000Base-X IEEE 802.3x flow Control
Connector	10/100/1000Base-T RJ-45 Port x 1 1000Base-X SFP slot x 1
Switch architecture	Store and Forward
MAC address table	1K
Jumbo Frame	9K bytes
Memory buffer:	32K
Link Loss Forward	100/1000T =>Fiber: If TX port link down, then converter will forced fiber to link down. Fiber =>100/1000T: If Fiber port link down, the media converter will forced 100/1000T port to link down.
Power Adaptor	Power: Output DC 5V, 1.6A Power Input: AC 100~240 V
Power Consumption	3.4W
Environment	Operation Temperature.: 0°C to 50°C Storage Temperature: -20° ~ 60°C Operation Humidity: 5% to 90% (Non-condensing)
LED	Power, FDX, Status, Speed, FO Link/Act, TX Link/Act
DIP Switch	DIP Switch 1: UTP Auto-Nego ; Disable/ Enable DIP Switch 2: Manual TX Data Rate: 10 /100M
	DIP Switch3: Manual TX Data Rate: 10/100M or 1000M DIP Switch4: Flow Control ; Disable/ Enable DIP Switch5: Fiber Auto-Nego ; Force / Enable DIP Switch6: Reserve DIP Switch7 : LLF (Link Loss Forwarding) Disable/Enable DIP Switch 8: RJ-45port Configuration ; from SW/ from DIP
Dimension	Module: 71mm(W)X94mm(D)X26mm(H)
EMI & Safety	FCC Class A, CE,UL
Warranty	2 years
Software Specification	
Management	Web UI management SNMP Management
Firmware update	HTTP firmware upgradable
VLAN	IEEE 802.1Q tag VLAN Q-in-Q VLAN VLAN Group: There are 16 VLAN Groups available VID: 1~4094
SNMP	Support SNMP v1/v2c Support power down trap
Bandwidth Control	Ingress / egress from 64 ~ 512000Kbps
Loopback Test	send packet number :1~255, default:100
DHCP	Support DHCP client

ORDERING INFORMATION

- **CM-121.....P/N: 8421-250**
Gigabit SFP to 10/1000M BASE-T Media Converter w/LLF design
- **MC-116-RPS.....P/N: 8420-007**
16 Slots Universal Media Converter Center (19-inch, 2U), optional for AC/DC power
- **MC-116-RPS -AC POWER.....P/N: EOTH000670**
Slide-in AC Power Module for MC-116-RPS
- **MC-116-RPS -DC-POWER.....P/N: EOTH000671**
Slide-in DC Power Module for MC-116-RPS

OPTIONAL ACCESSORIES

Mini GBIC (SFP)

- **8330-162** MINI GBIC 1000SX (LC/0.5km) Transceiver
- **8330-163** MINI GBIC 1000SX2 (LC/2km) Transceiver
- **8330-165** MINI GBIC 1000LX (LC/10km) Transceiver
- **8340-0591** MINI GBIC 1000LHX (LC/40km) Transceiver
- **8330-166** MINI GBIC 1000XD (LC/50km) Transceiver
- **8330-169** MINI GBIC 1000XD (LC/60km) Transceiver
- **8330-167** MINI GBIC 1000ZX (LC/80km) Transceiver
- **8330-170** MINI GBIC 1000EZX (120km) Transceiver
- **8330-188** LTSFP-1000BX-10KM Transceiver (WDM 1310)
- **8330-189** LTSFP-1000BX-10KM Transceiver (WDM 1550)
- **8330-186** LTSFP-1000BX-20KM Transceiver (WDM 1310)
- **8330-187** LTSFP-1000BX-20KM Transceiver (WDM 1550)
- **8330-180** LTSFP-1000BX-40KM Transceiver (WDM 1310)
- **8330-182** LTSFP-1000BX-40KM Transceiver (WDM 1550)
- **8330-181** LTSFP-1000BX-60KM Transceiver (WDM 1310)
- **8330-183** LTSFP-1000BX-60KM Transceiver (WDM 1550)
- **8330-184** LTSFP-1000BX-80KM Transceiver (WDM 1490)
- **8330-185** LTSFP-1000BX-80KM Transceiver (WDM 1550)

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