CM-121 Fiber Converter Series

10/100/1000BaseT to Gigabit Web Smart Fiber Media Converter

- *Comply with IEEE 802.3, 802.3u, 802.3ab and 802.3z*
- *Build in Link Loss Forwarding Technology*
- *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*
- *Slide in 16-slot converter chassis*

OVERVIEW

Lantech CM-121 is a 10/100/1000 Base T to Gigabit web smart 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 cooper to 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.

CM-121 can be slide into a 16-slots chassis which RPS option (MC-116-RPS) to be centralized and rack mountable.

FEATURES & BENEFITS

- **Fully complies with IEEE 802.3, 802.3u, 802.3ab, 802.3z Standards**
- **10/100/1000T to gigabit web smart 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 Adopter	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℃ 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
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 INFOMATION

- **CM-121……..…….....P/N: 8421-250**
  10/1000M BASE-T to Gigabit Web Smart Fiber Media Converter w/LLF design
- **MC-116-RPS -P1AC……..P/N: 8420-008**
  16 Slots Universal Media Converter Rack19-inch (2U), with 1 AC power
- **MC-116-RPS -P1DC……P/N: 8420-009**
  16 Slots Universal Media Converter Rack19-inch (2U), with 1 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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