



United Optronics Inc.

1323 Great Mall Drive

Milpitas, CA 95035-8037

Tel: (408) 503-8900 Fax: (408) 503 8908

PRELIMINARY PRODUCT SPECIFICATIONS

Media Converter 10/100Base-TX to 100Base-FX

(P/N: MCA-xxxx-0xxx-x00x)

1. Description

This Media Converter is designed to connect the 10/100Base-TX Ethernet adaptor card or 10/100Base-TX Network to a 10/100Base-TX device. The converter works by simply repeating the signals from 10/100Base-TX to suitable format for transmission over fiber cables to the 100Base-FX link.

- Complies with IEEE802.3 10/100Base-TX, 100Base-TX standard
- Fast Ethernet, 100Mbps
- Supports TP port auto-negotiation or fore full/half 10M/100M
- Converter twisted pair media (RJ-45) to fiber optic cable
- External power supply
- Status LEDs for activity
- Supports auto MDI-MDIX function



2. Specifications

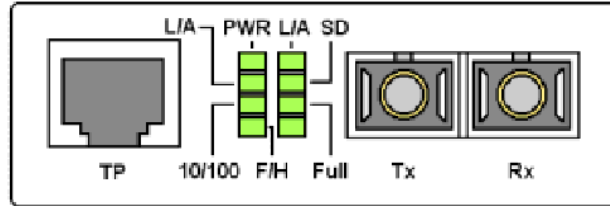
PARAMETER	SPECIFICATIONS	Notes
Transfer Rate	100Mbps-FX, 10/100Mbps-TX	
Duplex Mode	Full or Half duplex mode	
Operating Temperature	0 ~ 50°C	
Operating Relative Humidity	5 ~ 85 %RH	
Compliance	UL, TUV, FCC class B, VCCI	
LED	See Section 3	
Internal Function Switch	See Section 4	
Connectors Type	TX: RJ-45 100 meter maximum FX: SC, ST, LC	
Dimensions	98 × 68 × 25.4 mm (See Section 6)	
Supply Voltage	5 V	
Supply Current	1.2 A	
Power Consumption	3.5 W	



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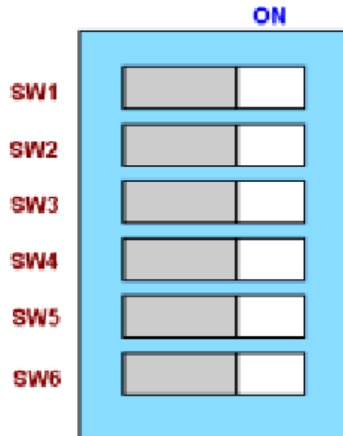
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3. LED Function



LED		FUNCTION	STATUS	STATE
PWR		Power indication	Power in	ON
			Power off	OFF
TX	L/A	TX Link/Active	Link/Active	ON/Blinking
			NO Link	OFF
	Full	TX Full/Half	Full	ON
			Half	OFF
10/100	TX 10/100Mbps	100Mbps	ON	
		10Mbps	OFF	
FX	L/A	FX Link/Active	Link/Active	ON/Blinking
			NO Link	OFF
	F/H	FX Full/Half	Full	ON
			Half	OFF
	SD	FX SD detect	Link	ON
			No Link	OFF

4. Internal Function Switch:





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SW1	State	Status
LPF (Link fault pass through)	ON	Enable LFP
	OFF	Disable

	SW2	SW3	Status
	Direct_Wire	Fast_FWD	
State	OFF	OFF	Store and forward switch mode
	OFF	ON	Modified cut-through switch mode
	ON	OFF	Converter mode
	ON	ON	Converter mode with auto-change-forward function

	SW4	SW5	SW6	Status	
	TP_Force	Speed_Mode	Duplex_Mode		
State	OFF	ON	ON	10/100M	Full/Half with auto-negotiation
	OFF	ON	OFF	10/100M	Half with auto-negotiation
	OFF	OFF	ON	10M	Full/Half with auto-negotiation
	OFF	OFF	OFF	10M	Half with auto-negotiation
	ON	ON	ON	100M	Full with auto-negotiation
	ON	ON	OFF	100M	Half with auto-negotiation
	ON	OFF	ON	10/100M	Full with auto-negotiation
	ON	OFF	OFF	10/100M	Half with auto-negotiation

5. Ordering Information

Model number *	Connector		Fiber Mode	Wavelength (nm)	Transmission Distance
	Ch.1	Ch.2			
MCA-0850-0M02-M00C	RJ45	SC	Multimode Fiber	850	2 km
MCA-0850-0M02-M00T	RJ45	ST	Multimode Fiber	850	2 km
MCA-0850-0M02-M00L	RJ45	LC	Multimode Fiber	850	2 km
MCA-1310-0M02-M00C	RJ45	SC	Multimode Fiber	1310	2 km
MCA-1310-0M02-M00T	RJ45	ST	Multimode Fiber	1310	2 km
MCA-1310-0M02-M00L	RJ45	LC	Multimode Fiber	1310	2 km
MCA-1310-0S20-M00C	RJ45	SC	Single Mode Fiber	1310	20 km
MCA-1310-0S40-M00C	RJ45	SC	Single Mode Fiber	1310	40 km
MCA-1310-0S20-M00T	RJ45	ST	Single Mode Fiber	1310	20 km
MCA-1310-0S20-M00L	RJ45	LC	Single Mode Fiber	1310	20 km
MCA-1550-0S20-M00C	RJ45	SC	Single Mode Fiber	1550	20 km



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6. Dimensions

