

## VCD-300



### Features:

- Full wire speed performance
- Auto-negotiation with link partners
- Link fault pass through function
- Transparent to 802.1Q VLAN tagged packets
- Far end fault function on FX port
- DIN-rail mounting
- Bi-Di options
- Screw terminal block and DC jack power interface options
- Wide input voltage range
- Wide operating temperature range
- Industrial-rated Emission and Immunity performance

### Description:

Industrial 10/100Base-TX to 100Base-FX Media Converter. It is used to extend the connection distance between two Ethernet devices via fiber cable transparently with no performance degradation. The media converter provides industrial strength and durability.

### Specification:

STANDARDS	
IEEE	802.3(10Base-T), 802.3u (100Base-TX), 802.3u(100Base-FX)
Approval	FCC class B, CE/EMC class B, EN60950 safety

TRANSMISSION	
TP Port	Shielded RJ-45 jack, 10/100Mbps full/half duplex, auto MDI/MDI-X detection, auto negotiation
FX Port	ST, SC connectors, 100Mbps full/half duplex, Far end fault function
Cable	Cat 5. UTP cable MMF – 62.5/125 $\mu$ m, 50/125 $\mu$ m SMF – 9/125 $\mu$ m
LED Indication	Power status TP Port: Link/Act, Speed, Duplex FX Port: Link/Act status, Fiber signal detected
DIP Switch	TP mode, TP duplex, TP speed, FX duplex



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PHYSICAL	
Operating Temperature	-10°C ~ 70°C
Storage Temperature	-20°C ~ 85°C
Operating Humidity	5% ~ 95% non-condensing
Operating Voltage	7 ~ 30 VDC
Power Consumption	Max. 3 Watts @ 30 VDC
Dimension	L95 x W82x H28 (mm)

EMI EMS SAFETY ENVIRONMENTAL QUALIFICATIONS		
TEST	STANDARD	SPECIFICATIONS
FCC/EMI	FCC Rule Part 15	Class B
CE/EMC/EMI	EN55022, CISPR 22	Class B
CE/EMC/Harmonic	EN 6100-3-2	< 75 W
CE/EMC/VFF	EN 6100-3-3	Clause 5
CD/EMC/EMS	EN55024	
ESD Test	EN 6100-4-2	±8 kV
RS Test	EN 6100-4-3	Strength: 10 V/m
EFT/BURST	EN 6100-4-4	Power: ±4 kV
Surge Immunity	EN 6100-4-5	Data: ±2 kV
CS Test	EN 6100-4-6	Level 3
Magnetic Field Imm.	EN 6100-4-8	50 Hz 40A/m
Voltage Dips Imm.	EN 6100-4-11	Interruption: C ; Dips: A
Safety	EN60950, IEC60950	
Dielectric Voltage	IEEE 802.3	TP, 1500 VAC /60 sec
Insulation Resistance	IEEE 802.3	TP, 500 VDC /10 MOhm
Cold Test	IEC68-2-1 Test Ad	-20°C, 96 hrs
Dry Heat Test	IEC68-2-2 Test Ad	+70°C, 40% RH, 96 hrs
Damp Heat Test	IEC68-2-3	+60°C, 90% RH, 96 hrs
Storage Test	IEC68-2-48	-20°C, 96 hrs; +85°C, 40% RH, 96 hrs
Vibration Test	IEC68-2-34	

## Ordering Information:

### VCD-300 - X

X	Connector	Mode	Distance	Wavelength	Tx Power	Sensitivity	Rx Max.
T	Dual ST	MM	2 km	1310 nm	-19 ~ -14 dBm	-31 dBm	-14 dBm
C	Dual SC	MM	2 km	1310 nm	-19 ~ -14 dBm	-31 dBm	-14 dBm
C1	Dual SC	MM	2 km	1310 nm	-20 ~ -14 dBm	-31 dBm	0 dBm
SA2	Dual SC	SM	20 km	1310 nm	-15 ~ -8 dBm	-31 dBm	-7 dBm
SL2	Dual SC	SM	20 km	1310 nm	-15 ~ -7 dBm	-32 dBm	-3 dBm
SL3	Dual SC	SM	30 km	1310 nm	-15 ~ -8 dBm	-34 dBm	0 dBm
SL4	Dual SC	SM	40 km	1310 nm	-5 ~ 0 dBm	-34 dBm	-3 dBm
W3515	Bi-Di SC	SM	15~20 km	TX 1310 nm RX 1550 nm	-14 ~ -8 dBm	-31 dBm	0 dBm
W5315	Bi-Di SC	SM	15~20 km	TX 1550 nm RX 1310 nm	-14 ~ -8 dBm	-31 dBm	0 dBm