



Industrial Networking Solutions

Media Converters

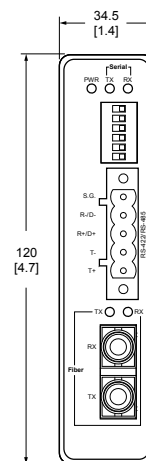
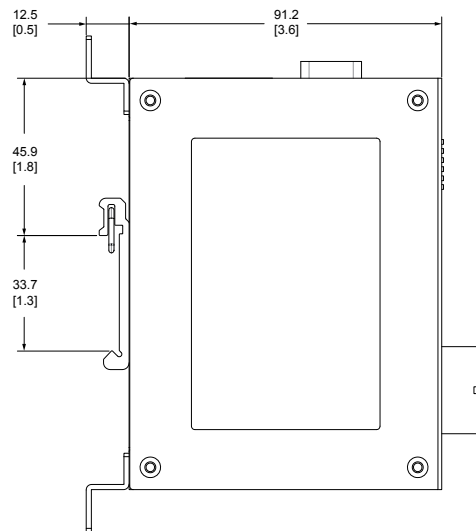


Media Converters | DIN-Rail/Wall Mount | Metal Housing | IP30 Rating



Industrial Serial to Fiber Media Converters

Part Number [MFG #]	Fiber Connectors	RS-232 RS-422 RS-485 TB5	Fiber Ports	Rated Distance
E45CT-DB9-TB5-FMSC-2KM [SF63-TB-DB-1FM-SC-2]	SC	1	1 (Multi-Mode)	2 Km
E45CT-DB9-TB5-FSSC-30KM [SF63-TB-DB-1FS-SC-30]		1	1 (Single-Mode)	30 km
E45CT-DB9-TB5-FMST-2KM [SF63-TB-DB-1FM-ST-2]	ST	1	1 (Multi-Mode)	2 Km
E45CT-DB9-TB5-FSST-30KM [SF63-TB-DB-1FS-ST-30]		1	1 (Single-Mode)	30 km



Feature Highlights:

- Supports Multi-mode 2KM, Single-mode 30KM
- PTP and Ring mode for serial fiber ring communication
- Supports RS-485 120 ohm line terminator
- Supports RS-485 Data signals pull high/low resistor
- Supports input voltage 9 ~ 48VDC
- -40 ~ 70 °C Wide range of operating temperature for hazardous environment applications



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Specifications & Approvals



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Optical Fiber			
Fiber Connector		SC/ST	
Cable Requirements		Multi-mode	50/125um, 62.5/125um
		Single-mode	9/125um
Transmission Distance		Multi-mode	2km
		Single-mode	30km
Wavelength	SC	Multi-Mode	850nm
		Single-Mode	1310nm
	ST	Multi-Mode	1310nm
		Single-Mode	1310nm
Tx Power	SC	Multi-Mode	-4~-9.5 dBm
		Single-Mode	+3~-4 dBm
	ST	Multi-Mode	-14~-20 dBm
		Single-Mode	-8~-15 dBm
Rx Sensitivity	SC	Multi-Mode	<-24
		Single-Mode	<-34
	ST	Multi-Mode	<-32
		Single-Mode	<-34
RS-232/422/485			
RS-232 Signals		TxD, RxD, GND (DCD, DTR, DSR internal short ; CTS, RTS internal short)	
RS-422 Signals		TxD+, TxD-, RxD+, RxD-, GND	
RS-485-4w Signals		TxD+, TxD-, RxD+, RxD-, GND	
RS-485-2w Signals		Data+, Data-,GND	
Baud rate		300bps to 921.6Kbps(RS-422/485) 300bps to 115.2Kbps(RS-232)	
Environmental Limits			
Operating Temperature		-40℃ ~ 70℃ (-40℉ ~ 158℉)	
Storage Temperature		-40℃ ~ 85℃ (-40℉ ~ 185℉)	
Ambient Relative Humidity		5 to 95%, 55℃ (non-condensing)	

Power Requirements				
Input Voltage		9~48 VDC		
Input Current		0.28A max, 9 VDC		
Connection		Removable 3-pin Screw Terminal Block		
Reverse Polarity Protection		Present		
Regulatory Approvals				
EMI	FCC Part15, CISPR (EN55032) Class A			
EMC	IEC61000-4-2 (ESD) Level 3, Criteria B IEC61000-4-3 (RS) Level 3, Criteria A IEC61000-4-4 (EFT) Level 3, Criteria A IEC61000-4-5 (Surge) Level 3, Criteria B IEC61000-4-6 (CS) Level 3, Criteria A IEC61000-4-8 (PFMF) Level 3, Criteria A IEC61000-4-11 (DIP)			
Safty	LVD (EN60950-1)			
EMS Test	Item		Value	Level
IEC 61000-4-2	ESD	Contact Discharge Air Discharge	6KV,Criterion B 8KV,Criterion B	3 3
IEC 61000-4-3	RS	Enclosure ports	10V/m(un-modulated, r.m.s) 80% AM 1KHz, Criterion A	3
IEC 61000-4-4	EFT	Power Port Single port	±2KV,Cirterion A ±1KV,Cirterion A	3 3
IEC 61000-4-5	Surge	Power Port Single port	±2KV,Cirterion A ±2KV,Cirterion B	3 3
IEC 61000-4-6	CS	Power Port	10 V (0.15 - 80 MHz), Criterion A	3
		Single Port	10 V (0.15 - 80 MHz), Criterion A	3
IEC 61000-4-8	PFMF	Enclosure	10 V/m, Criteria A	3
IEC 61000-4-11	DIP	AC Power Port	-	-
Shock	MIL-STD-810F Method 516.5			
Drop	MIL-STD-810F Method 516.5			
Vibration	MIL-STD-810F Method 514.5 C-1 & C-2			
RoHS	Yes			
MTBF	75 Years			
Warranty	5 Years			