mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Device Networking Access



Industrial Serial to Fiber Media Converters

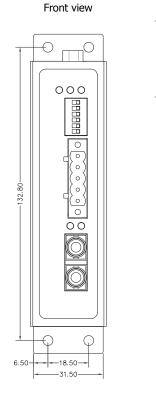
SF63 Series

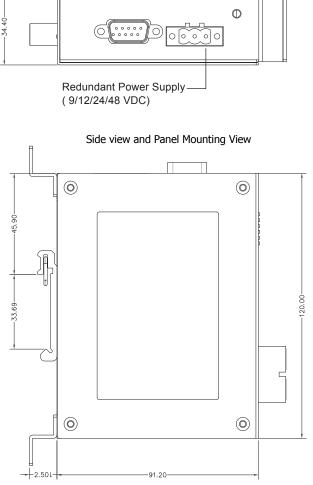
RoHS compliant

- 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 resister
- Supports input voltage 9 ~ 48VDC
- -40 ~ 70°C Wide range of operating temperature for hazardous environment applications

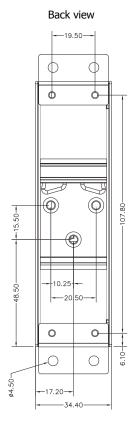
The SF63 Industrial Serial to Fiber Media Converter Series provide industrial conversion between 100BaseFX(SC or ST connector), RS-232, and RS-422/485; connection options include multi-mode SC/ST connector (2km), and single- mode SC/ST connector (30km). The SF63 Serial to Fiber Media Converter is designed for harsh industrial environments, and complies with FCC/CE standards.

Mechanical





Top view





Industrial Serial to Fiber Media Converters

Specifications 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

| 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 | SF63-TB-DB-1Fm-SC (multi-mode): 850nm | | | |
| | SF63-TB-DB-1Fs-SC (single-mode):1310nm | | | |
| | SF63-TB-DB-1Fm-ST (multi-mode): 1310nm | | | |
| | SF63-TB-DB-1Fs-ST (single-mode):1310nm | | | |
| Tx Power | SF63-TB-DB-1Fm-SC (multi-mode): -4~-9.5 dBm | | | |
| | SF63-TB-DB-1Fs-SC (single-mode):+3~-4 dBm | | | |
| | SF63-TB-DB-1Fm-ST (multi-mode): -14~-20 dBm | | | |
| | SF63-TB-DB-1Fs-ST (single-mode):-8~-15 dBm | | | |
| Rx Sensitivity | SF63-TB-DB-1Fm-SC (multi-mode): <-24 | | | |
| | SF63-TB-DB-1Fs-SC (single-mode): <-34 | | | |
| | SF63-TB-DB-1Fm-ST (multi-mode): <-32 | | | |
| | SF63-TB-DB-1Fs-ST (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) | | | |
| Baud rate | 300bps to 115.2Kbps(RS-232) | | | |
| 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 | | | |
| Physical Characteristics | | | | |
| Housing | Metal, IP30 protection | | | |
| Dimension | 34.4 x 91.2 x 120mm (1.35 x 3.59 x 4.72) | | | |
| Weight | 700g | | | |
| Installation | DIN-Rail mounting, wall mounting (optional) | | | |
| Environmental limits | | | | |
| Operating Temperature | -40°C ~ 70°C (-40°F ~ 158°F) | | | |
| Storage Temperature | -40°C ~ 85°C (-40°F ~ 185°F) | | | |
| Ambient Relative Humidity | 5 to 95%, 55°C (non-condensing) | | | |
| Regulatory Approvals | | | | |
| EMI | FCC Part15, CISPR (EN55032) Class A | | | |
| EMS | 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) | | | |
| 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 compliant | Yes | | | |
| IP50 warranty | | | | |
| MTBF | 75 Years | | | |
| Warranty Period 5 Years | | | | |
| • · · · · | | | | |

| Ordering Informat | tion [Availa | able Models] | | | | | |
|-----------------------------------|---|--|--|-----------------|--|--|--|
| SF63-TB-DB-1F | m-SC | -SC Industrial RS-232/422/485 to Multi-mode fiber converter, SC connector | | | | | |
| SF63-TB-DB-1F | s-SC | SC Industrial RS-232/422/485 to Single-mode fiber converter, SC connector | | | | | |
| SF63-TB-DB-1F | m-ST Industrial RS-232/422/485 to Multi-mode fiber converter, ST connector | | | | | | |
| SF63-TB-DB-1F | -ST Industrial RS-232/422/485 to Single-mode fiber converter, ST connector | | | | | | |
| Optional Accesso | ries | | | | | | |
| UN315-1212 (US | 6-Y) | Y-Type power adapter, 100~2 | Y-Type power adapter, 100~240VAC input, 1.25A @ 12VDC output, US plug, LV6 | | | | |
| UNE315-1212 (E | :U-Y) | Y-Type power adapter, 100~2 | Y-Type power adapter, 100~240VAC input, 1.25A @ 12VDC output, EU plug, LV6 | | | | |
| AD1024-24F | | 24W/1A DIN-Rail 24 VDC por | 24W/1A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input | | | | |
| AD1048-24FS | | 48W/2A DIN-Rail 24 VDC por | 48W/2A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input | | | | |
| AD1072-24F | | 72W/3A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input | | | | | |
| AD1100-24F | 100W/4A DIN-Rail 24 VDC power supply with universal 100~240 VAC/120~370 VDC input | | | | | | |
| AD1120-24F | | | | | | | |
| AD1120-48F | 120W/2.5A DIN-Rail 48 VDC power supply with universal 100~240 VAC/120~370 VDC input | | | | | | |
| 2ESDP-03P | 3-pin 5.08mm Terminal Block with 180° Angle | | | | | | |
| LM38-A3S-TI-N | | SFP Transceiver, 155Mbps, 1310nmLED, Multi-mode, 2km, 3.3V, -40~85C | | | | | |
| LM38-A3S-TI-N | | SFP Transceiver, 155Mbps, 1 | 1310nmFP, Single-mode, 30km, 3.3V,-40~85C | | | | |
| Regulatory Appro | vals and Er | nvironmental Type Tests | | | | | |
| EMI Immunity Typ | | | | | | | |
| Test | | Description | Test Levels | Severity Levels | | | |
| FCC part 15 | - | Subpart B | - | Class A | | | |
| EN55032 | - | 2012/AC:2013 | - | Class A | | | |
| EMS Tests | 1 | | | | | | |
| Test | | Description | Test Levels | Severity Levels | | | |
| IEC61000-4-2 | ESD | Contact discharge | 6KV,Criterion B | Level 3 | | | |
| | | Air discharge | 8KV,Criterion B | Level 3 | | | |
| IEC61000-4-3 | RS | Enclosure ports | 10V/m(un-modulated, r.m.s) 80% AM 1KHz, Criterion A | Level 3 | | | |
| IEC61000-4-4 | EFT | Power Port | ±2KV,Cirterion A | Level 3 | | | |
| | | Single port | ±1KV,Cirterion A | Level 3 | | | |
| IEC61000-4-5 | Surge | Power Port | ±2KV,Cirterion A | Level 3 | | | |
| | | Single Port | ±2KV,Cirterion B | Level 3 | | | |
| IEC61000-4-6 | CS | Power Port | 10 V (0.15 - 80 MHz), Criterion A | Level 3 | | | |
| | | Single Port | 10 V (0.15 - 80 MHz), Criterion A | Level 3 | | | |
| IEC 61000-4-8 | PFMF | Enclosure | 10 V/m, Criteria A | Level 3 | | | |
| IEC61000-4-11 Environmental Ty | DIP pe Test | AC Power Port | | | | | |
| Test | | Description | Test Levels | Severity Levels | | | |
| MIL-STD-810F | Shock | Impact acceleration& pulse duration | 40g@11ms | | | | |
| MIL-STD-810F | Freefall | 8 corners, 12 edges, 6 faces | 122cm | _ | | | |
| | Vibration | Packaged Random waveform | x:2.4 Grms | | | | |
| | | | y:1.28 Grms | _ | | | |
| MIL-STD-810F | | | z:3.851.04Grms | | | | |
| | | | x:0.740 Grms | | | | |
| | | Operating Random waveform | | | | | |
| | | Operating Random waveform | y:0.204 Grms | _ | | | |

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