

# MF727xS2 Industrial Tri-Port Media Converter

## (1) 10/100Base Copper Port & (2) 100Base-FX Fiber Ports

### Product Models

| Model        | Fiber Port                           | Wavelength               | Tx Power (dBm) | Rx Sens. (dBm) | Rx Max. (dBm) |
|--------------|--------------------------------------|--------------------------|----------------|----------------|---------------|
| MF7273S2     | (2) MM, ST, 2km                      | 1310nm                   | -19 ~ -14      | -31            | -14           |
| MF7274S2     | (2) MM, SC, 2km                      | 1310nm                   | -19 ~ -14      | -31            | -14           |
| MF7275S2-2   | (2) SM, SC, 20km                     | 1310nm                   | -15 ~ -8       | -30            | -7            |
| MF7275S2-5   | (2) SM, SC, 50km                     | 1310nm                   | -5 ~ 0         | -35            | 0             |
| MF727BS2     | (1) MM, SC, 2 km<br>(1) SM, SC, 20km | 1310nm                   | -20 ~ -14      | -31            | 0             |
|              |                                      | 1310nm                   | -15 ~ -8       | -30            | -7            |
| MF7275S2-SFA | (2) SM, SC, 20km<br>(Single Fiber)   | Tx: 1310nm<br>Rx: 1550nm | -14 ~ 8        | -31            | 0             |
| MF7275S2-SFB | (2) SM, SC, 20km<br>(Single Fiber)   | Tx: 1550nm<br>Rx: 1310nm | -14 ~ 8        | -31            | 0             |

### Technical Specifications

|                            |   |
|----------------------------|---|
| <b>Conversion:</b>         | 10Base-T to 100Base-FX, 100Base-TX to 100Base-FX,<br>100Base-FX to 100Base-FX, 100Base-FX MM to 100Base-FX SM   |
| <b>Conversion Methods:</b> | Store-and-Forward<br>Full wire speed switching  |
| <b>Packet Size:</b>        | 1536 bytes max.   |
| <b>Packet Types:</b>       | Transparent conversion with no modification to:<br>- Standard IEEE 802.3 Ethernet packet frames<br>- IEEE 802.1Q tagged packet frames   |
| <b>Copper Port (TP):</b>   | Shielded RJ-45 jack<br>Auto MDI/MDI-X crossover function<br>Auto-negotiation function for speed and duplex mode<br>Full-duplex and half duplex support<br>10Mbps - supports Cat. 3,4,5 UTP cable up to 100m<br>100Mbps - supports Cat. 5 UTP cable up to 100m |
| <b>Fiber Ports (FX):</b>   | Multi-Mode ST or SC, Single-Mode SC, 50/125, 62.5/125 MM, 9/125 SM Fiber<br>100Mbps Full duplex and half-duplex support<br>Far End Fault Indication support   |
| <b>Flow Control:</b>       | IEEE 802.3x for full-duplex, Back Pressure for half-duplex  |
| <b>LEDs:</b>               | Power Status<br>TP port link, activity, speed, duplex status<br>Per FX port link, activity, optical link status   |

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## **Technical Specifications**

|                           |   |
|---------------------------|---|
| <b>Configuration:</b>     | Auto/forced mode, TP speed, TP duplex, FX duplex  |
| <b>DC Power Input:</b>    | Screw Terminal Block: 2 pairs of +/- contacts<br>DC Jack: -D 6.3mm / +D 2.0mm<br>Operating Voltage range: +7 ~ +30VDC |
| <b>Power Consumption:</b> | 3W max. @ 30VDC power input   |
| <b>Dimensions:</b>        | 1.10 x 3.23 x 3.74 inches (28 x 82 x 95 mm)   |
| <b>Housing:</b>           | Enclosed metal, no fan  |
| <b>Mounting Support:</b>  | DIN Rail, Panel Mounting  |
| <b>Environment:</b>       | Operating Temperature: -10° C ~ 70° C<br>Storage Temperature: -20° C ~ 85° C<br>Humidity: 5% ~ 95% non-condensing     |
| <b>Approval:</b>          | FCC Class B, CE/EMC Class B, EN60950 safety   |