



## Intelligent 100Base-TX to 100Base-FX Dual Wavelength Single Mode SC Fiber Converter (20 km / 12.4 miles)

TFC-110S20D5i (v1.0R)

The TFC-110S20D5i intelligent fiber converter works with the TFC-1600 chassis system or as a standalone unit. This converter is a Dual Wavelength Single Mode SC-Type fiber converter that spans distances up to 20 km (12.4 miles). This module must be used with the TFC-110S20D3i module. Ports include 1 x 10/100Base-TX (RJ-45) port and 1 x 100Base-FX (SC Simplex Type) port.

### PRODUCT OVERVIEW

- Must use with TFC-110S20D3i
- Port level SNMP management support
- SC-type dual-wavelength single-mode fiber port
- 10/100Base-TX RJ-45 port
- Spans distances up to 20 km (12.4 miles)
- Functions as a standalone converter or with the TFC-1600 fiber chassis

### FEATURES

- Must use with TFC-110S20D3i
- Compliant with IEEE 802.3u 100Base-TX and 100Base-FX standards
- 1 x 10/100Base-TX RJ-45 port
- 1 x 100Base-FX single-mode bi-directional simplex-SC type fiber port
- Port level SNMP management support
- Monitor and configure Ethernet or Fiber's duplex mode, LLR, port on / off and receive link down information via management module TFC-1600MM and chassis TFC-1600
- Dip switch controls: Fiber (Full / Half-Duplex), UTP (Auto negotiation / Manual), Speed (10 Mbps / 100 Mbps), Copper (Full / Half-Duplex), LLR (Enable / Disable), and LLCf (Enabled / Disable)
- Link Loss Carry Forward (LLCF) support
- Link Loss Return (LLR) support
- Status LED indicators for Power and Link / Activity
- Removable metal enclosure
- Wall mountable
- Functions as a standalone converter or with the TFC-1600 fiber chassis
- Lifetime Warranty

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## SPECIFICATIONS

HARDWARE	
<b>Standard</b>	<ul style="list-style-type: none"> <li>• IEEE 802.3 10Base-T</li> <li>• IEEE 802.3u 100Base-TX/FX</li> </ul>
<b>Network Media</b>	<ul style="list-style-type: none"> <li>• 100Base-TX: Cat. 5 EIA/TIA-568 100-ohm UPT/STP, up to 100 m</li> <li>• 100Base-FX: Single-mode fiber optic cable 9/125 μm or 10/125 μm, up to 20 km</li> </ul>
<b>Protocol</b>	<ul style="list-style-type: none"> <li>• CSMA / CD</li> </ul>
<b>Ports</b>	<ul style="list-style-type: none"> <li>• 1 x 10/100Base-TX</li> <li>• 1 x 100Base-FX (simplex SC-type)</li> </ul>
<b>Dip Switch</b>	<ul style="list-style-type: none"> <li>• Fiber (full / half duplex)</li> <li>• UTP (auto negotiation / manual)</li> <li>• Speed (10 Mbps / 100 Mbps)</li> <li>• Copper (full / half duplex)</li> <li>• LLR (enable / disable)</li> <li>• LLCF (enable / disable)</li> </ul>
<b>Transfer Rate</b>	<ul style="list-style-type: none"> <li>• 100 Mbps (half duplex) / 200 Mbps (full duplex)</li> </ul>
<b>Diagnostic LEDs</b>	<ul style="list-style-type: none"> <li>• Per Unit: power</li> <li>• Per Port (TX): Link / Activity, FDX / HDX, Link Fail, Speed</li> <li>• Per Port (FX): Link / Activity, FDX / HDX, Link Fail</li> </ul>
<b>Power Adapter</b>	<ul style="list-style-type: none"> <li>• Input: 100~240 V 50/60Hz, 0.2 A</li> <li>• Output: 5 V DC, 1 A</li> </ul>
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>• 2 watts (max)</li> </ul>
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>• 120 x 88 x 25 mm (4.7 x 3.46 x 0.98 in.)</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>• 354 g (12.5 oz)</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>• Operating: 0° ~ 40°C (32° ~ 104°F)</li> <li>• Storage: -25° ~ 70°C (-13 ° ~ 158°F)</li> </ul>
<b>Humidity</b>	<ul style="list-style-type: none"> <li>• Max 90% (non-condensing)</li> </ul>
<b>Certifications</b>	<ul style="list-style-type: none"> <li>• CE, FCC</li> </ul>

MODEL NAME	MEDIA	WAVELENGTH	OPTICAL OUTPUT POWER (DBM)		OPTICAL INPUT POWER (DBM)		POWER BUDGET	DISTANCE
			Min.	Max.	Min. (Sensitivity)	Max.		
TFC-110S20D5i	SMF	TX: 1550 nm RX: 1310 nm	Min.	Max.	Min. (Sensitivity)	Max.	17	20 km
			-14	-8	-31	0		

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## PACKAGE CONTENTS

TFC-110S20D5i

Multi-Language Quick Installation Guide

Power adapter (5 V DC, 1 A)

## RELATED PRODUCTS

TFC-110S20D3i	Intelligent 100Base-TX to 100Base-FX Dual Wavelength Single Mode SC Fiber Converter (20 km / 12.4 miles)
TFC-1600MM	SNMP Management Module
TFC-1600	16-Bay Fiber Converter Chassis System

## CONTACT INFORMATION

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