

# SFP transceiver modules

# SFP transceiver modules

For Tiesse products of the series

Imola, Imola LX, Imola E, Lipari, Elba

with fibre connectivity

## SFP Transceiver 1000Base-BX – Single Fiber

### IM-SFP-BX10-T131R149

- **Max Data Rate:** 1000 Mbps
- **Wavelength:** 1310nm-TX / 1490nm-RX
- **Max Cable Distance:** 10 km
- **TX Power:** -9 ~ -3 dBm
- **Commercial Temperature Range:** 0° C - 70° C (32° F - 158° F)
- **Receiver Sensitivity:** < -23 dBm
- **Connector:** LC simplex

### IM-SFP-BX10-T149R131

- **Max Data Rate:** 1000 Mbps
- **Wavelength:** 1490nm-TX / 1310nm-RX
- **Max Cable Distance:** 10 km
- **TX Power:** -9 ~ -3 dBm
- **Commercial Temperature Range:** 0° C - 70° C (32° F - 158° F)
- **Receiver Sensitivity:** < -23 dBm
- **Connector:** LC simplex

### IM-SFP-BX40-T131R149

- **Max Data Rate:** 1000 Mbps
- **Wavelength:** 1310nm-TX / 1550nm-RX
- **Max Cable Distance:** 40 km
- **TX Power:** -5 ~ 2 dBm
- **Commercial Temperature Range:** 0° C - 70° C (32° F - 158° F)
- **Receiver Sensitivity:** < -23 dBm
- **Connector:** LC simplex

### IMT-SFP-BX40-T131R149

- **Max Data Rate:** 1000 Mbps
- **Wavelength:** 1310nm-TX / 1550nm-RX
- **Max Cable Distance:** 40 km
- **TX Power:** -5 ~ 2 dBm
- **Industrial Temperature Range:** -40° C - +85° C (-40° F fino 185° F)
- **Receiver Sensitivity:** < -23 dBm
- **Connector:** LC simplex

### IM-SFP-BX40-T155R131

- **Max Data Rate:** 1000 Mbps
- **Wavelength:** 1550nm-TX / 1310nm-RX
- **Max Cable Distance:** 40 km
- **TX Power:** -5 ~ 0 dBm
- **Commercial Temperature Range:** 0° C - 70° C (32° F - 158° F)
- **Receiver Sensitivity:** < -23 dBm
- **Connector:** LC simplex

### IM-SFP-BX40-T131R155

- **Max Data Rate:** 1000 Mbps
- **Wavelength:** 1310nm-TX / 1550nm-RX
- **Max Cable Distance:** 40 km
- **TX Power:** -3 ~ 2dBm
- **Commercial Temperature Range:** 0° C - 70° C (32° F - 158° F)
- **Receiver Sensitivity:** < -23 dBm
- **Connector:** LC simplex

### IM-SFP-BX80-T157R149

- **Max Data Rate:** 1000 Mbps
- **Wavelength:** 1570nm-TX / 1490nm-RX
- **Max Cable Distance:** 80 km
- **TX Power:** -2 ~ 3 dBm
- **Commercial Temperature Range:** 0° C - 70° C (32° F - 158° F)
- **Receiver Sensitivity:** < -24 dBm
- **Connector:** LC simplex

### IM-SFP-BX80-T149R157

- **Max Data Rate:** 1000 Mbps
- **Wavelength:** 1490nm-TX / 1570nm-RX
- **Max Cable Distance:** 80 km
- **TX Power:** -2 ~ 3 dBm
- **Commercial Temperature Range:** 0° C - 70° C (32° F - 158° F)
- **Receiver Sensitivity:** < -24dBm
- **Connector:** LC simplex



## Other SFP transceivers modules

### IMT-SFP-1000Base LX

- **Max Data Rate:** 1000 Mbps
- **Wavelength:** 1310nm
- **Max Cable Distance:** 10 km
- **TX Power:** -9.5 ~ -3 dBm
- **Industrial temperature range:** -40° C / +85° C (-40° F / +185° F)
- **Receiver Sensitivity:** < -23 dBm
- **Connector:** LC duplex

### IMT-SFP-1000Base SX

- **Max Data Rate:** 1000 Mbps
- **Wavelength:** 850nm
- **Max Cable Distance:** 550m over OM2 MMF
- **TX Power:** -9.5 ~ -3 dBm
- **Industrial temperature range:** -40° C / +85° C (-40° F / +185° F)
- **Receiver Sensitivity:** < -17 dBm
- **Connector:** LC duplex

### IM-SFP-1000Base ZX

- **Max Data Rate:** 1000 Mbps
- **Wavelength:** 1550nm
- **Max Cable Distance:** 80 km
- **TX Power:** 0 ~ 5 dBm
- **Commercial Temperature Range:** 0° C / +70° C (+32° F / +158° F)
- **Receiver Sensitivity:** < -24 dBm
- **Connector:** LC duplex

### IM-SFP-EX40

- **Max Data Rate:** 1000 Mbps
- **Wavelength:** 1310nm
- **Max Cable Distance:** 40 km
- **TX Power:** -5 ~ 0 dBm
- **Commercial Temperature Range:** 0° C / +70° C (+32° F / +158° F)
- **Receiver Sensitivity:** < -24 dBm
- **Connector:** LC duplex

### IMT-SFP-100 FX

- **Max Data Rate:** 125 Mbps
- **Wavelength:** 1310nm
- **Max Cable Distance:** 2 km
- **TX Power:** -5 ~ 0 dBm
- **Industrial temperature range:** -40° C / +85° C (-40° F / +185° F)
- **Receiver Sensitivity:** < -24 dBm
- **Connector:** LC duplex

### IM-SFP-1000Base TX

- **Max Data Rate:** 1000 Mbps
- **Max Cable Distance:** 100 m
- **Media:** Cat 6/Cat 6a
- **Commercial Temperature Range:** 0° C / +70° C (+32° F / +158° F)
- **Connector:** RJ45

### IMT-SFP-1000Base TX

- **Max Data Rate:** 1.25 Gbps
- **Max Cable Distance:** 100 m
- **Media:** Cat 5 UTP
- **Industrial temperature range:** -40° C / +85° C (-40° F / +185° F)
- **Connector:** RJ45

## 2.5 Gbps transceiver module

### IM-SFP-2.5Gbase-T

- **Max Data Rate:** 2.5 Gbps
- **Max Cable Distance:** 100 m
- **Media:** Cat5e or better
- **Commercial Temperature Range:** 0° C / +70° C (32° F / 158° F)
- **Connector:** RJ45

## 10 Gbps transceiver module

### IMT-SFP-10G10-LR

- **Max Data Rate:** 10.3125 Gbps
- **Wavelength:** 1310nm
- **Max Cable Distance:** 40 km
- **TX Power:** -8.2 ~ 0.5 dBm
- **Industrial Temperature Range:** -40° C / +85° C (-40° F / 185° F)
- **Receiver Sensitivity:** < -14.4 dBm
- **Connector:** LC duplex



## Summary table of router models and SFP transceiver modules

All SFP modules are also available in industrial version, which have an extended temperature range.

	Product models	Base BX modules	Other modules	2.5Gbps	10Gbps
<b>Imola IKF series</b>	<ul style="list-style-type: none"> <li>— LX x272-IKF</li> <li>— x872-IKF-IKW</li> <li>— x872-IKF-IK2W</li> <li>— x872-IKF-IKW-PoE</li> <li>— x872-44-IKW-IKF</li> <li>— x872-IK2V-IK2F</li> </ul>	<ul style="list-style-type: none"> <li>— IM-SFP-BX10-T149R131</li> <li>— IM-SFP-BX10-T131R149</li> <li>— IMT-SFP-BX40-T131R149</li> <li>— IM-SFP-BX40-T155R131</li> <li>— IM-SFP-BX40-T149R131</li> <li>— IM-SFP-BX40-T131R155</li> <li>— IM-SFP-BX80-T157R149</li> <li>— IM-SFP-BX80-T149R157</li> </ul>	<ul style="list-style-type: none"> <li>— IMT-SFP-1000Base LX</li> <li>— IMT-SFP-1000Base SX</li> <li>— IM-SFP-1000Base ZX</li> <li>— IM-SFP-EX40</li> <li>— IM-SFP-1000Base TX</li> </ul>		
<b>Imola SGR (Smart Grid series)</b>	<ul style="list-style-type: none"> <li>— x272-SGR</li> <li>— x272-SGR-IK2W</li> <li>— x272-SGR-IKR</li> </ul>				
<b>Imola series</b>	<ul style="list-style-type: none"> <li>— x286</li> </ul>			— IM-SFP-2.5Gbase-T	— IMT-SFP-10G10-LR
<b>Imola E</b>	<ul style="list-style-type: none"> <li>— CPU S2 board</li> <li>— Switch S2 board</li> </ul>	<ul style="list-style-type: none"> <li>— IM-SFP-BX10-T149R131</li> <li>— IM-SFP-BX10-T131R149</li> <li>— IMT-SFP-BX40-T131R149</li> <li>— IM-SFP-BX40-T155R131</li> <li>— IM-SFP-BX40-T149R131</li> <li>— IM-SFP-BX40-T131R155</li> <li>— IM-SFP-BX80-T157R149</li> <li>— IM-SFP-BX80-T149R157</li> </ul>	<ul style="list-style-type: none"> <li>— IMT-SFP-1000Base LX</li> <li>— IMT-SFP-1000Base SX</li> <li>— IM-SFP-1000Base ZX</li> <li>— IM-SFP-EX40</li> <li>— IMT-SFP-100 FX</li> <li>— IM-SFP-1000Base TX</li> <li>— IMT-SFP-1000Base TX</li> </ul>		
<b>Elba series</b>	<ul style="list-style-type: none"> <li>— Elba 100</li> </ul>	<ul style="list-style-type: none"> <li>— IM-SFP-BX10-T149R131</li> <li>— IM-SFP-BX10-T131R149</li> <li>— IMT-SFP-BX40-T131R149</li> <li>— IM-SFP-BX40-T155R131</li> <li>— IM-SFP-BX40-T149R131</li> <li>— IM-SFP-BX40-T131R155</li> <li>— IM-SFP-BX80-T157R149</li> <li>— IM-SFP-BX80-T149R157</li> </ul>	<ul style="list-style-type: none"> <li>— IMT-SFP-1000Base LX</li> <li>— IMT-SFP-1000Base SX</li> <li>— IM-SFP-1000Base ZX</li> <li>— IM-SFP-EX40</li> <li>— IMT-SFP-100 FX</li> <li>— IM-SFP-1000Base TX</li> <li>— IMT-SFP-1000Base TX</li> </ul>		— IMT-SFP-10G10-LR
<b>Lipari series</b>	<ul style="list-style-type: none"> <li>— Lipari 5584-W</li> </ul>			— IM-SFP-2.5Gbase-T	

# Tiesse

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Tiesse is a totally Italian company with more than 25 years of experience in the design, development and production of network equipment and IoT devices, suitable for use in mission-critical and industrial scenarios. Tiesse's most successful series, Imola, Lipari and Levanto, are innovative, competitive and certified, and are present in the networks of the major telecommunications operators, in the energy sector, large-scale distribution and vertical sectors, both in the Italian and foreign markets.

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Ver. ENG 111124