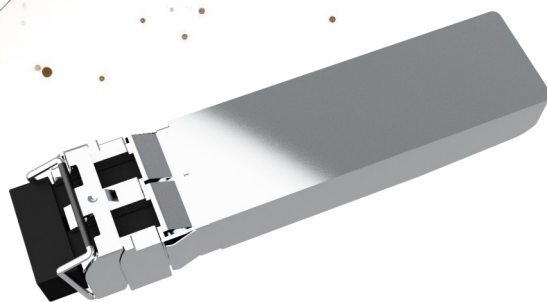




# SFP transceiver modules

# 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-10GBase-T-80

- **Data Rate:** 1.25G/10G, multi-rate
- **Interface:** RJ45
- **Transmission:** 80 meters transmission over CAT.6a/CAT.7
- **Industrial Temperature Range:** -40° C / +85° C (-40° F / 185° F)



## 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></ul>                                                                                                                                                            | <ul style="list-style-type: none"><li>— IMT-SFP-1000Base LX</li></ul>                                                                                                                                                                      |                   |                        |
| <b>Imola SGR<br/>(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>                                                                                  | <ul style="list-style-type: none"><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 SX</li><li>— IM-SFP-1000Base ZX</li><li>— IM-SFP-EX40</li><li>— IM-SFP-1000Base TX</li></ul>                                                                                      |                   |                        |
| <b>Imola series</b>                      | <ul style="list-style-type: none"><li>— x286</li></ul>                                                                                                                                     |                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                            | IM-SFP-2.5Gbase-T | — IMT-SFP-10GBase-T-80 |
| <b>Lipari</b>                            | <ul style="list-style-type: none"><li>— 5584-W</li></ul>                                                                                                                                   |                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                            |                   |                        |
| <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-10GBase-T-80 |

# Tiesse

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