

# Perle Systems

 [perle.com/products/10g-optical-transceiver.shtml](http://perle.com/products/10g-optical-transceiver.shtml)

## 10 Gigabit Optical Transceivers

### SFP+ and XFP Pluggable Optical Modules

- 10 Gigabit SFP+ and XFP type
- Single-mode and multimode fiber
- Duplex LC connectors
- Hot-pluggable with durable metal enclosure
- MSA SFF-8472 compliant
- Compatible with 10G Cisco routers and switches
- Enhanced digital diagnostic information
- 32F to 158F (0C to 70C) Operating temperature



Perle 10 Gigabit Optical Transceivers are interchangeable, compact media connectors and enable a single network device to connect to a wide variety of fiber types and distances.

For use with [Perle 10 Gigabit Ethernet Media Converters](#) and third party equipment that supports SFP+ and XFP transceivers. Select a Model to obtain a Part Number. Or view [Perle SFP Optical Transceivers](#).

| Model                             | Form Factor | Type        | Power Cons. (watts) | Power Supply (Volts) | DOM / DMI | Transmit      |              | Receive       |      | Power Budget (dBm) | Wave-length (nm) | Fiber Type | Core Size (um) | Modal Bandwidth (MHz* Km) | Operating Distance |
|-----------------------------------|-------------|-------------|---------------------|----------------------|-----------|---------------|--------------|---------------|------|--------------------|------------------|------------|----------------|---------------------------|--------------------|
|                                   |             |             |                     |                      |           | (dBm)         |              | (dBm)         |      |                    |                  |            |                |                           |                    |
|                                   |             |             |                     |                      |           | Min           | Max          | Min           | Max  |                    |                  |            |                |                           |                    |
| <a href="#">PSFP-10GD-M2LC008</a> | SFP+        | 10GBase-SR  | 0.8                 | +3.3                 | Yes       | -6.5          | 1.2**        | -11.1         | -1.0 | 4.6                | 850              | MMF        | 62.5 (FDDI)    | 160                       | 26 m (85 ft)       |
|                                   |             |             |                     |                      |           |               |              |               |      |                    |                  |            | 62.5 (OM1)     | 200                       | 33 m (108 ft)      |
|                                   |             |             |                     |                      |           |               |              |               |      |                    |                  |            | 50             | 400                       | 66 m (217 ft)      |
|                                   |             |             |                     |                      |           |               |              |               |      |                    |                  |            | 50 (OM2)       | 500                       | 82 m (269 ft)      |
|                                   |             |             |                     |                      |           |               |              |               |      |                    |                  |            | 50 (OM3)       | 2000                      | 300 m (984 ft)     |
| <a href="#">PSFP-10GD-M2LC02</a>  | SFP+        | 10GBase-LRM | 1.0                 | +3.3                 | Yes       | -4.5 (in OMA) | 1.5 (in OMA) | -6.0 (in OMA) | -    | 1.5                | 1310             | MMF        | 62.5 (FDDI)    | 160                       | 220 m (722 ft)     |
|                                   |             |             |                     |                      |           |               |              |               |      |                    |                  |            | 62.5 (OM1)     | 200                       | 220 m (722 ft)     |
|                                   |             |             |                     |                      |           |               |              |               |      |                    |                  |            | 50             | 400                       | 100 m (328 ft)     |
|                                   |             |             |                     |                      |           |               |              |               |      |                    |                  |            | 50 (OM2)       | 500                       | 220 m (722 ft)     |
|                                   |             |             |                     |                      |           |               |              |               |      |                    |                  |            | 50 (OM3)       | 2000                      | 220 m (722 ft)     |
| <a href="#">PSFP-10GD-S2LC10</a>  | SFP+        | 10GBase-LR  | 1.5                 | +3.3                 | Yes       | -7.2          | 0.5          | -14.4         | -    | 7.2                | 1310             | SMF        | **             | -                         | 10 Km (32,821 ft)  |

|                          |      |            |     |          |     |                     |      |                      |      |      |      |     |                |      |                      |
|--------------------------|------|------------|-----|----------|-----|---------------------|------|----------------------|------|------|------|-----|----------------|------|----------------------|
| <u>PSFP-10GD-S2LC40</u>  | SFP+ | 10GBase-ER | 1.5 | +3.3     | Yes | -2.1<br>(in<br>OMA) | -3.0 | -14.1<br>(in<br>OMA) | -1.0 | 12.1 | 1550 | SMF | **             | -    | 40 Km*<br>(25 miles) |
| <u>PXFP-10GD-M2LC008</u> | XFP  | 10GBase-SR | 1.5 | +5, +3.3 | Yes | -7.5                | -1.0 | -1.0                 | -9.9 | 6.5  | 850  | MMF | 62.5<br>(FDDI) | 160  | 26 m<br>(85 ft)      |
|                          |      |            |     |          |     |                     |      |                      |      |      |      |     | 62.5<br>(OM1)  | 200  | 33 m<br>(108 ft)     |
|                          |      |            |     |          |     |                     |      |                      |      |      |      |     | 50             | 400  | 66 m<br>(217 ft)     |
|                          |      |            |     |          |     |                     |      |                      |      |      |      |     | 50<br>(OM2)    | 500  | 82 m<br>(269 ft)     |
|                          |      |            |     |          |     |                     |      |                      |      |      |      |     | 50<br>(OM3)    | 2000 | 300 m<br>(984 ft)    |
| <u>PXFP-10GD-S2LC10</u>  | XFP  | 10GBase-LR | 2.5 | +3.3     | Yes | -6.5                | 0.5  | -14.5                | 0.5  | 8.0  | 1310 | SMF | **             | -    | 10 Km<br>(32,821 ft) |
| <u>PXFP-10GD-S2LC40</u>  | XFP  | 10GBase-ER | 3.5 | +5, +3.3 | Yes | -1.0                | 2.0  | -12.3                | -    | 11.3 | 1550 | SMF | **             | -    | 40 Km*<br>(25 miles) |

\* Links longer than 30 km for the same link power budget are considered engineered links as per IEEE 802.3ae

\*\*ITU-T G.652 SMF as specified by the IEEE 802.3ae standard.

\*\*\* The launch power shall be the lesser of the class1 safety limit or the maximum receive power

Unless specified, transmitter and receiver power are in average values

The minimum fiber cable distance for all modules listed is 2 meters.

OMA ( Optical Modulation Amplitude )

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