Model Name	10GBASE-LR SFP+ Module
Model	PN59023-MY

Product Specification

401-59023-MY-SP02

Page 1 of 3

1. Summary

10 GBASE-LR SFP+ Module is SFP (Small-Factor Pluggable) module to be connected to a Panasonic Ethernet Switch's SFP+ extension slot.

2. Rated/Environmental Conditions

2-1. Operating Voltage	DC 3.3V
2-2. Power consumption	1.25W max.
2-3. Operating environment	Temperature: 0 - 50°C Humidity: 20 - 80%RH (no condensation)
2-4. Storage environment	Temperature: -20 - 70℃ Humidity: 10 - 90%RH(no condensation)
2-5. Standards IEEE802.3ae 10GBASE-LR SFF-8431 Specification for Enhanced Small Form Factor Pluggable Modul SFF-8472 Diagnostic Monitoring Interface Class 1 Laser Product (EN 60825-1, EN 62368-2) EN 62368-1	

3. Form

3-1. External Dimensions	9mm (Height) × 14mm (Width) × 57mm (Depth) (Excluding protruding sections)
3-2. Mass (Weight)	17g

4. Hardware Specifications

4-1. Interface	Fiber port :LC connector (Duplex), 1port Transmitting and receiving network system:		
	IEEE802.3ae 10GBASE-LR Transmission speed :10Gbps Compatible cable :Single Mode Fiber cable Maximum transmission distance :10km		
4-2. Optical wavelength	1310nm		
4-3. Output Optical Power	-6dBm min 0.5dBm max.		
4-4. Optical Input Power minimum (Sensitivity)	-12.6dBm		
4-5. Diagnostic Monitoring Interface	SFF-8472 Diagnostic Monitoring Interface for Optical Transceivers (DMI) Ethernet Switch that the device has been installed must have a DMI function too. * 1 Refer 6-1. Supported Products.		

5. Accessories

5-1. Accessories	(1) Installation Guide	:1
	(2) Protection cap of the fiver optic port (Attached to the module)	:1

6. Supported Products

6-1. Supported Products	Please use in Panasonic Ethernet Switchs listed below.	
	Supported Product Name	Supported Product Number
	ZEQUO 6400	PN36240E-MY (*1 Supported DMI function)
	For the latest information about supported product, check our website. *1 DMI: Diagnostic Monitoring Interface	

Date issued	July. 3, 2015	Panasonic Electric Works Networks Co., Ltd.
Date revised	Apr. 1, 2022	

Model Name	10GBASE-LR SFP+ Module
Model	PN59023-MY

Product Specification

401-59023-MY-SP02

Page 2 of 3

7. Prohibitions when Using the Product to Guarantee Safety

The manufacturer assumes no responsibility for any problems occurring when the following conditions are not satisfied. Observe the following items when using the product.

- (1) Do not look at the laser light.
 - Deviation could lead to visual impairment. (Class 1 Laser Product)
- (2) Do not disassemble and/or modify this SFP+ Module.

 Deviation could lead to fire, electric shock, and/or equipment failure.
- (3) Handle the SFP+ Module carefully so that fibers or hands may not be injured by its end connected to the Ethernet Switch or the SFP+ extension slot of the Ethernet Switch.
- (4) Do not handle this SFP+ Module and connection cables during a thunderstorm. Deviation could lead to electric shock.
- (5) Do not put foreign objects (such as metal and combustible) into the opening (such as fiber port, case), and/or do not drop them into the inside of the SFP+ Module. Deviation could lead to fire, electric shock, and/or equipment failure.
- (6) Do not place this SFP+ Module in harsh environment (such as near water, high humid, and/or high dust). Deviation could lead to fire, electric shock, and/or equipment failure.
- (7) Do not place this SFP+ Module under direct sunlight and/or high temperature. Deviation could lead to high internal temperature and fire.
- (8) Do not install this SFP+ Module at the location with continuous vibration or strong shock, or at the unstable location. Deviation could lead to injury and/or equipment failure.
- (9) Do not connect any equipment other than compliance to fiber port. Deviation could lead to fire, electric shock, and/or equipment failure.
- (10) Do not put this SFP+ Module into fire.
 Deviation could lead to explosion and/or fire.

8. Basic Instructions for the Use of This Product

- (1) For inspection and/or diagnosis, consult the retailer.
- (2) Correctly and securely connect the SFP+ Module to the SFP+ extension slot of a Panasonic Ethernet Switch.
- (3) Check the connector of the fiber optic cable for dirt and dust. If it is dirty, be sure to clean it before connecting it to the fiber optic port.
- (4) When removing this SFP+ Module from the SFP+ extension slot, unlatch the fiber optic cable and remove it from the SFP+ Module. Then pull down the lever of the SFP+ Module to the front, pull out the SFP+ Module in a state where its latch is released.
- (5) Remove the SFP+ Module from the SFP+ extension slot before cleaning the SFP+ Module.
- (6) Do not touch the metal terminal or place electrically-charged objects in the proximity of the SFP+ Module. Static electricity could lead to breakdown.
- (7) Please use the SFP+ Module in locations where the ambient temperature is from 0 to 50°C.
- (8) Do not use the SFP+ Module in any condition where the specification limits are exceeded. Deviation could lead to equipment failure.

Date issued	July. 3, 2015	Panasonic Electric Works Networks Co., Ltd.
Date revised	Apr. 1, 2022	