



TN-QSFP-40G-xx  
Cisco Compatible 40G QSFP+  
User Guide

**Part Number 33684**  
**Revision D September 2022**

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## Warranty

For details on the Lantronix warranty policy, go to <http://www.lantronix.com/support/warranty>.

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## Revision History

Date	Rev	Notes
8/29/16	A	Initial release.
9/6/16	B	Incorporate editorial changes.
2/8/22	C	Add TN-QSFP-40G-SR-BD and TN-QSFP-40G-IR4.
9/12/22	D	Initial Lantronix re-brand.

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## Product Description

The Lantronix TN-QSFP-40G-xx series 40G QSFP+ optical transceivers are designed to install in any QSFP+ port allowing for 40GBase-X interfaces to the network through the QSFP+ connector.

The TN-QSFP-40G-xx transceivers are Cisco compatible\* and are designed for bi-directional serial-optical data communication such as 40G Ethernet.

Lantronix QSFP+ modules fully comply with the Multi-Sourcing Agreement (MSA). This compliance allows our QSFP+ modules to be used in all other MSA compliant QSFP+ platforms. In addition, TN QSFP+ modules are also compatible with all Cisco QSFP+ based routers and switches, as well as Cisco's IOS software. TN QSFP+ modules are not Cisco OEM brand modules.

## Ordering Information

Product Number	Description
<b>TN-QSFP-40G-LR4</b>	QSFP+ 40GBase-LR4, 1271nm, 1291nm, 1311nm, 1331nm, single mode (LC) [10km/6.2mi.] Link Budget: 7.0 dB
<b>TN-QSFP-40G-SR4</b>	QSFP+ 40GBase-SR4, 850nm multimode (MPO) [400m/1313ft. on OM4, 300m/985ft. on OM3] Link Budget: 2.3 dB
<b>TN-QSFP-40G-LR4-3</b>	QSFP+ 40GBase-LR4, 1271nm, 1291nm, 1311nm, 1331nm single mode (LC) [30km/18.7mi.] Link Budget: 9.0 dB
<b>TN-QSFP-40G-SR-BD</b>	QSFP+ 40GBase-SR-BD, 850/900nm multimode [150m/492ft. on OM4, 100m/328ft. on OM3]
<b>TN-QSFP-40G-IR4</b>	QSFP+ 40GBase-IR4, 1271nm, 1291nm, 1311nm, 1331nm, single mode (LC) [2km/1.24 mi.] DMI

## Features

- High capacity: up to 44.4 Gbps per module
- Compliant with SFF 8436 QSFP+ MSA
- Single +3.3 V Power Supply
- RoHS Compliant (all models)
- Low Power Dissipation : SR4 < 1.5 Watts, LR4 < 3.5w
- Digital Diagnostic Monitoring (DMI and DDMI)
- Class 1 Laser International Safety Standard IEC 60825 Compliant
- 40GBase-SR4: 4 lanes, up to 11.1Gbps per lane, Standard MPO connector
- 40GBase-LR4: 4 wavelength CWDM Mux/Demux design, up to 11.1Gbps per wavelength, Duplex LC connector

The fiber optic transmitters on this device meet Class I Laser safety requirements per IEC-825/CDRH standards and comply with 21 CFR1040.10 and 21CFR1040.11.

**WARNING:** Visible and invisible laser radiation when open. Do not stare into the beam or view the beam directly with optical instruments. Failure to observe this warning could result in an eye injury or blindness.

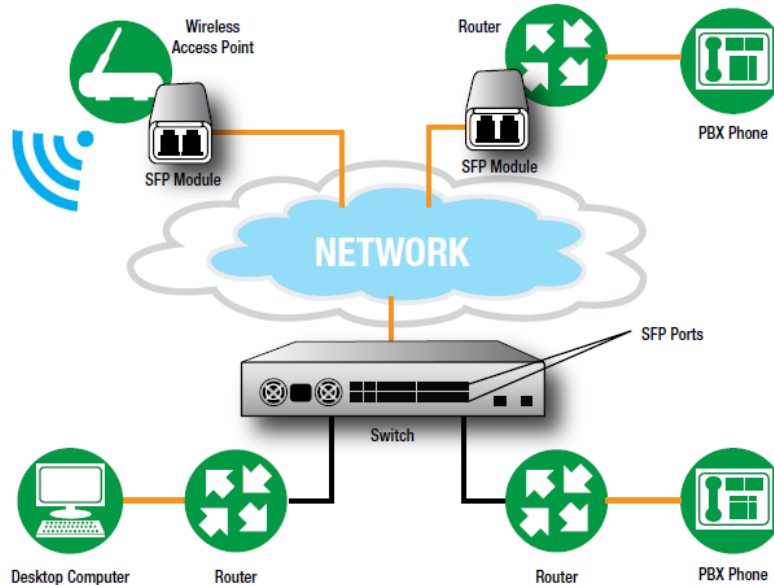
## Specifications and Standards

The TN-QSFP-40G-xx was designed to meet these standards and specifications:

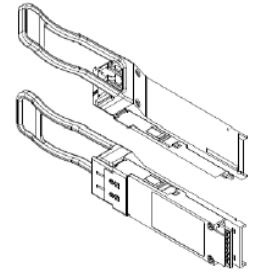
<b>Standards</b>	IEEE 802.3ba
<b>Compliance</b>	SFF 8436, IEC 60825-1, FDA CDRH 21-CFR 1040.10 Class 1
<b>Dimensions</b>	Width: 0.71" [18 mm] x Depth: 2.83" [72 mm] x Height: 0.33" [8.5 mm]
<b>Power Input</b>	3.3V
<b>Power Consumption</b>	TN-QSFP-40G-SR4: <1.5W TN-QSFP-40G-LR4: <3.5W TN-QSFP-40G-LR4-3: <3.5W
<b>Shipping Weight</b>	0.03 Kg. (1.05 Oz.)
<b>Voltage</b>	Single +3.3 V Power Supply
<b>Operating Temp</b>	0°C to +70°C
<b>Storage Temp</b>	-40°C to +85°C
<b>Warranty</b>	Lifetime

## Application: Fiber Connection with QSFP+

Applications include 40G Ethernet, 10G Ethernet, and Data Center Aggregation Connection.



**TN-QSFP-40G-SR-BD** applications can include 40 Gigabit Ethernet interconnects, Datacom/Telecom switch & router connections, Data aggregation and backplane applications, Proprietary protocol and density applications. The TN-QSFP-40G-SR-BD provides an aggregate bandwidth of 40Gbps into a duplex LC cable. This allows reuse of the installed LC duplex cabling infrastructure for 40GbE application. Link distances up to 100 m using OM3 and 150m using OM4 optical fiber are supported. These modules are designed to operate over multimode fiber systems using a nominal wavelength of 850nm on one end and 900nm on the other end. The electrical interface uses a 38 contact QSFP+ type edge connector. The optical interface uses a conventional LC duplex connector.



The **TN-QSFP-40G-SR-BD** is capable of over 100m transmission on OM3 Multimode Fiber (MMF) and 150m on OM4 MMF.

- Without digital diagnostic functions
- Temperature range 0°C to 70°C

The **TN-QSFP-40G-IR4** is a QSFP+ LR4 10km optical transceiver with DDM and SMF. It is compliant with 40G Ethernet IEEE802.3ba and 40GBASE-LR4 Standard and is QSFP+ MSA compliant. It supports up to 11.2Gb/s data rate per wavelength and up to 10km transmission on single mode fiber (SMF). Its operating case temperature is 0 to 70°C. The TN-QSFP-40G-IR4 has maximum power consumption of 2.5W using the LC duplex connector. The TN-QSFP-40G-IR4 is compliant to 40GBASE-LR4 of the IEEE P802.3ba standard.

## QSFP+ Unpacking

Before you start installing the TN-QSFP-40G-xx, verify that the package contains the following items:

- One TN-QSFP-40G-xx SFP
- Two protective foam pieces
- One Documentation Postcard

Notify your sales representative immediately if any of the above items is missing or damaged. Save the packaging for possible future use.

The optical ports of the QSFP+ transceiver must be terminated with an optical connector or with a dust plug. The QSFP+ transceiver must be operated within the specified temperature and voltage limits.

## Safety Instructions

When a connector is removed during installation, testing, or servicing, or when an energized fiber is broken, a risk of ocular exposure to optical energy that may be potentially hazardous occurs, depending on the laser output power. The primary hazards of exposure to laser radiation from an optical-fiber system are:

- Damage to the eye by accidental exposure to a beam emitted by a laser source.
- Damage to the eye from viewing a connector attached to a broken fiber or an energized fiber.

**Danger:** Never attempt to view optical connectors that might be emitting laser energy.

Do not power up the laser product without connecting the laser to the optical fiber and putting the cover in position, as laser outputs will emit infrared laser light at this point.

See the Lantronix [SFP webpage](#) for our full line of SFP transceivers. See the [FOA webpage](#) for additional information.

### High Risk Activities Disclaimer

Components, units, or third-party products used in the product described herein are NOT fault-tolerant and are NOT designed, manufactured, or intended for use as on-line control equipment in the following hazardous environments requiring fail-safe controls: the operation of Nuclear Facilities, Aircraft Navigation or Aircraft Communication Systems, Air Traffic Control, Life Support, or Weapons Systems ("High Risk Activities"). Lantronix and its supplier(s) specifically disclaim any expressed or implied warranty of fitness for such High Risk Activities.

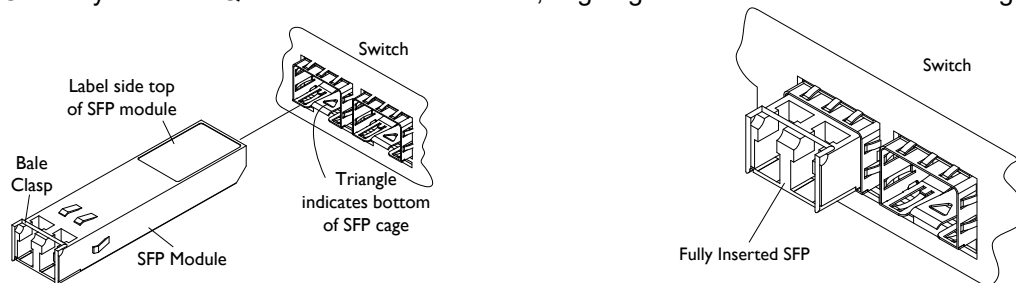
## QSFP+ Installation

### Cautions

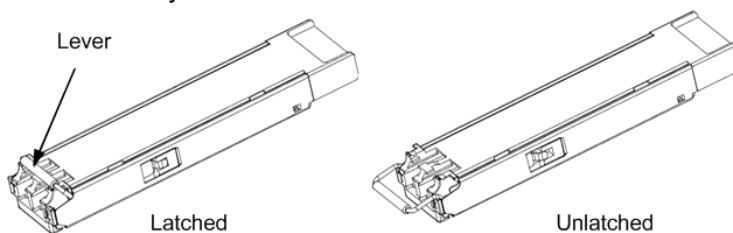
- The QSFP+ transceiver module is keyed to only be installed one way. However, if forced the wrong way, damage may occur.
- Avoid getting dust or other contaminants into the fiber bore of the QSFP+ transceiver module.
- Clean the optic surfaces of the optical fiber before you plug them back in to the optical bores of another QSFP+ transceiver module.
- Each port must match the wavelength specifications on the other end of the cable, and the cable must not exceed the specified cable length for reliable communications.

### Installing a QSFP+ Module

1. Attach an ESD-preventive wrist strap to your wrist and to the ESD ground connector or a bare metal surface on your chassis.
2. Remove the QSFP+ transceiver module from its protective packaging. Note: Do not remove the optical bore dust plugs until directed to do so in a later procedure.
3. Check the slot orientation. Note that for some devices (e.g., S4224) some slots are “upside down” compared to other slots.
4. Position the QSFP+ device at the desired installation slot, with the label facing correctly.
5. Carefully slide the QSFP+ device into the slot, aligning it with the internal installation guides.



6. Ensure that the QSFP+ device is firmly seated against the internal mating connector. To verify that the QSFP+ is seated and latched properly. **a)** Grasp the QSFP+ by the sides and try to remove it without releasing the latch. **b)** If the QSFP+ can not be removed, it is installed and seated properly. If the QSFP+ can be removed, reinsert it and press harder with your thumb; repeat if necessary until it is latched securely into the socket.



7. Connect the fiber cable to the fiber port connector of the QSFP+ device. Make sure the QSFP+ release latch is in the up (closed) position when you insert the cable connector into the QSFP+.
8. Remove the dust plug from the connector. Save the dust plug for future use.
9. Attach an appropriate cable into the QSFP+ module port.
10. Attach the other end of the cable into the other device.
11. Observe the status LED(s). See the related manual for details.



## Fiber Cable Physical Characteristics

The fiber cable physical characteristics must meet or exceed IEEE 802.3ae specifications:

- Single mode fiber (recommended): 9  $\mu\text{m}$
- Multimode fiber (recommended): 62.5/125  $\mu\text{m}$
- Multimode fiber (optional): 100/140, 85/140, 50/125  $\mu\text{m}$

**Warning:** Visible and invisible laser radiation when open. DO NOT stare into laser beam or view directly with optical instruments. Failure to observe this warning could result in damage to your eyes or blindness.

## Connecting Fiber Cables

To install the fiber cable, do the following:

1. Locate the appropriate fiber cable.
2. Install the cable as shown below.



## Removing a QSFP+ Module

**Caution:** Be careful when removing the QSFP+ from a device. Some QSFP+ transceiver module temperatures may exceed 160°F (70°C) and be too hot to touch with bare hands. **Note:** Do not remove and replace the QSFP+ modules more often than necessary; excessive QSFP+ removing and replacing can shorten the useful life of the QSFP+.

1. Attach an ESD-preventive wrist strap to your wrist and to the ESD ground connector or a bare metal surface on your chassis.
2. For future reattachment of fiber-optic cables, note which connector plug is send (TX) and which is receive (RX).
3. Remove the QSFP+ transceiver module:
  - a. If the QSFP+ transceiver module has an **actuator button latch**, gently press the actuator button on the front of the QSFP+ transceiver module until it clicks and the latch mechanism releases the QSFP+ transceiver module from the socket connector. Grasp the actuator button between your thumb and index finger, and carefully pull the QSFP+ transceiver module straight out of the module slot.
  - b. If the QSFP+ transceiver module has a **bail clasp latch**, pull the latch out and down to eject the QSFP+ transceiver module from the socket connector. If the bail clasp latch is obstructed and you cannot use your index finger to open it, use a small, flat-blade screwdriver or other long, narrow instrument to open the bail clasp latch. Grasp the QSFP+ transceiver module between your thumb and index finger, and carefully remove it from the socket.
4. Replace the Dust Plug.
5. Place the removed QSFP+ transceiver module in an antistatic bag or other protective package.

## Digital Diagnostics Monitoring Interface (DDMI)

DDMI (Digital Diagnostics Monitoring Interface) provides enhanced digital DMI for optical transceivers which allows real time access to device operating parameters.

This section contains brief definitions of the DDMI support offered on some QSFP+ transceiver modules. For further information, see the help option or User Guide for the S3290, S4140, S4212, and S4224.

**Note:** This feature is not available on all devices and may vary between products.

The screenshot shows a web interface for monitoring a transceiver. On the left is a navigation menu with options like System, Ports, Link OAM, DHCP, Security, LACP, Loop Protection, Spanning Tree, MVR, IPMC, LLDP, Ethernet Services, Performance, Monitor, PTP, MAC Table, VLANs, DDMI (Overview, Detailed), UDLD, and Diagnostics. The main content area is titled 'Transceiver Information' and includes a table with the following data:

Vendor	Transition
Part Number	TN-10GSFP-LR1
Serial Number	8800022
Revision	0001
Date Code	2011-08-09
Transceiver	10G

Below this is the 'DDMI Information' section, which contains a table with the following data:

Type	Current	High Alarm Threshold	High Warn Threshold	Low Warn Threshold	Low Alarm Threshold
Temperature(C)	52.875	85.000	80.000	0.000	-5.000
Voltage(V)	3.2600	3.6000	3.5000	3.1000	3.0000
Tx Bias(mA)	38.896	90.000	80.000	4.000	2.000
Tx Power(mW)	0.5624	1.4125	1.1220	0.1585	0.1259
Rx Power(mW)	0.0000 --	1.4125	1.1220	0.0363	0.0229
Tx Power(dBm)	-2.50	1.50	0.50	-8.00	-9.00
Rx Power(dBm)	-inf	1.50	0.50	-14.40	-16.40

The Transceiver Information and DDMI Information sections are described below.

DDMI Parameter	Description
<b>DDMI</b>	Rx Power (uW) Intrusion Threshold; a level for Rx Power on the Fiber port. If the DDMI read value falls below the preset value, an intrusion is detected, and a trap is generated. The default is 0 uW. The range is 0 - 65,535 uW.
<b>Port</b>	The device's port number.
<b>Vendor</b>	The QSFP+ vendor's name.
<b>Part Number</b>	The QSFP+ vendor Part number provided by the QSFP+ vendor ( <i>TN-10GSFP-SR</i> ).
<b>Serial Number</b>	The QSFP+ Vendor Serial number provided by the QSFP+ vendor (e.g., <i>8672105</i> ).
<b>Revision</b>	The QSFP+ vendor Revision level for part number provided by the QSFP+ vendor.
<b>Data Code</b>	The vendor's manufacturing date code (e.g., <i>2011-08-09</i> ).
<b>Transceiver</b>	The Transceiver compatibility (e.g., <i>1000BASE_SX</i> or <i>10G</i> ).
<b>Current</b>	The current value of temperature, voltage, TX bias, TX power, and RX power.
<b>High Alarm Threshold</b>	The high alarm threshold value of temperature, voltage, TX bias, TX power, and RX power.
<b>High Warn Threshold</b>	The high warn threshold value of temperature, voltage, TX bias, TX power, and RX power.
<b>Low Warn Threshold</b>	The low warn threshold value of temperature, voltage, TX bias, TX power, and RX power.
<b>Low Alarm Threshold</b>	The low alarm threshold value of temperature, voltage, TX bias, TX power, and RX power.

## SFP Information and SFP Detail Info

**Note:** This feature is not available on all devices and may vary between products. See the related manual for more information.

### SFP Information

This page displays general SFP information and monitoring information as shown and described below.

Port	Tx Central Wavelength	Bit Rate	Temperature	Vcc	Mon1 (Bias)	Mon2 (TxPwr)	Mon3 (RxPwr)
1							
2							
3							
4							
5							
6							
7							
8							
9							
10	1310	10 Gbps	27.07 C	3.35 V	0 mA	0.00 dBm	none

#### Parameter descriptions:

Parameter	Description
<b>Port</b>	The logical port for the settings contained in the same row.
<b>Tx Central Wavelength</b>	Displays the nominal transmitter output wavelength in nm.
<b>Bit rate</b>	Displays the nominal bit rate of the transceiver.
<b>Temperature</b>	Displays the internally measured transceiver temperature. Temperature accuracy is vendor specific but must be better than 3 degrees Celsius over specified operating temperature and voltage.
<b>Vcc</b>	Displays the internally measured transceiver supply voltage. Accuracy is vendor specific but must be better than 3 percent of the manufacturer's nominal value over specified operating temperature and voltage. Note that in some transceivers, transmitter supply voltage and receiver supply voltage are isolated. In that case, only one supply is monitored. Refer to the device specification for more detail.
<b>Mon1 (Bias)</b>	Displays the measured TX bias current in uA. Accuracy is vendor specific but must be better than 10 percent of the manufacturer's nominal value over specified operating temperature and voltage.
<b>Mon2 (TX PWR)</b>	Displays the measured coupled TX output power in mW. Accuracy is vendor specific but must be better than 3dB over specified operating temperature

	and voltage. Data is assumed to be based on measurement of a laser monitor photodiode current. Data is not valid when the transmitter is disabled.
<b>Mon3 (RX PWR)</b>	Displays the measured received optical power in mW. Absolute accuracy is dependent upon the exact optical wavelength. For the vendor specified wavelength, accuracy should be better than 3dB over specified temperature and voltage. This accuracy should be maintained for input power levels up to the lesser of maximum transmitted or maximum received optical power per the appropriate standard. It should be maintained down to the minimum transmitted power minus cable plant loss (insertion loss or passive loss) per the appropriate standard. Absolute accuracy beyond this minimum required received input optical power range is vendor specific.

### SFP Detail Info

This page displays detailed SFP information and monitoring information as shown and described below.

The screenshot shows the 'SFP Information for Port 10' page. The left sidebar contains a navigation menu with 'Monitor' selected, and 'SFP Detail Info' highlighted. The main content area displays a table of SFP parameters for Port 10. The table includes fields for Connector Type, Fiber Type, Tx Central Wavelength, Bit Rate, Vendor OUI, Vendor Name, Vendor P/N, Vendor Revision, Vendor Serial Number, Date Code, Temperature, Vcc, Mon1 (Bias), Mon2 (TX PWR), and Mon3 (RX PWR). The values for these parameters are: Connector Type: SFP or SFP Plus - LC; Fiber Type: Reserved; Tx Central Wavelength: 1310; Bit Rate: 10 Gbps; Vendor OUI: 00-c0-f2; Vendor Name: Transition; Vendor P/N: TN-SFP-25G-ER; Vendor Revision: 1.0; Vendor Serial Number: TLSPH007; Date Code: 200820; Temperature: 27.07 C; Vcc: 3.35 V; Mon1 (Bias): 0 mA; Mon2 (TX PWR): 0.00 dBm; Mon3 (RX PWR): none.

#### Parameter descriptions:

Parameter	Description
<b>Connector Type</b>	Displays the external optical or electrical cable connector provided as the media interface.
<b>Fiber Type</b>	Displays the fiber channel transmission media.
<b>Tx Central Wavelength</b>	Displays the nominal transmitter output wavelength in nm.
<b>Bit rate</b>	Displays the nominal bit rate of the transceiver.
<b>Vendor OUI</b>	Displays the vendor IEEE company ID (Organizationally Unique Identifier).

<b>Vendor Name</b>	Displays the vendor name (e.g., TN-SFP-25G-ER).
<b>Vendor P/N</b>	Displays the vendor part number or product name.
<b>Vendor Revision</b>	Displays the vendor product revision.
<b>Vendor Serial Number</b>	Displays the vendor serial number for the transceiver.
<b>Date Code :</b>	Displays the vendor's manufacturing date code.
<b>Temperature</b>	Displays the internally measured transceiver temperature. Temperature accuracy is vendor specific but must be better than 3 degrees Celsius over specified operating temperature and voltage.
<b>Vcc</b>	Displays the internally measured transceiver supply voltage. Accuracy is vendor specific but must be better than 3 percent of the manufacturer's nominal value over specified operating temperature and voltage. Note that in some transceivers, transmitter supply voltage and receiver supply voltage are isolated. In that case, only one supply is monitored. Refer to the device specification for more detail.
<b>Mon1 (Bias)</b>	Displays the measured TX bias current in uA. Accuracy is vendor specific but must be better than 10 percent of the manufacturer's nominal value over specified operating temperature and voltage.
<b>Mon2 (TX PWR)</b>	Displays the measured coupled TX output power in mW. Accuracy is vendor specific but must be better than 3dB over specified operating temperature and voltage. Data is assumed to be based on measurement of a laser monitor photodiode current. Data is not valid when the transmitter is disabled.
<b>Mon3 (RX PWR)</b>	Displays the measured received optical power in mW. Absolute accuracy is dependent upon the exact optical wavelength. For the vendor specified wavelength, accuracy should be better than 3dB over specified temperature and voltage. This accuracy should be maintained for input power levels up to the lesser of maximum transmitted or maximum received optical power per the appropriate standard. It should be maintained down to the minimum transmitted power minus cable plant loss (insertion loss or passive loss) per the appropriate standard. Absolute accuracy beyond this minimum required received input optical power range is vendor specific.

## For More Information

Technical information in this document is subject to change without notice. For more information see the Lantronix [SFP webpage](#).

**40 Gigabit Ethernet ("40GbE" or "40G") Port Types** (40GBASE-CR4, 40GBASE-KR4, 40GBASE-SR4, 40GBASE-LR4, 40GBASE-ER4, 40GBASE-FR, 40GBASE-T) ITU standards descriptions include:

**40GBASE-SR4** ("short range") is a port type for multi-mode fiber and uses 850 nm lasers. Its Physical Coding Sublayer 64b/66b PCS is defined in IEEE 802.3 Clause 82 and its Physical Medium Dependent PMD in Clause 86. It uses four lanes of multi-mode fiber delivering serialized data at a rate of 10.3125 Gbit/s per lane. 40GBASE-SR4 has a reach of 100 m on OM3 and 150m on OM4. There is a longer range variant 40GBASE-eSR4 with a reach of 300 m on OM3 and 400 m on OM4. This extended reach is equivalent to the reach of 10GBASE-SR.

**40GBASE-LR4** ("long range") is a port type for single-mode fiber and uses 1300 nm lasers. Its Physical Coding Sublayer 64b/66b PCS is defined in IEEE 802.3 Clause 82 and its Physical Medium Dependent PMD in Clause 87. It uses four wavelengths delivering serialized data at a rate of 10.3125 Gbit/s per wavelength.

The amendment to [IEEE Std 802.3-2008](#) includes changes to IEEE Std 802.3-2008 and adds Clause 80 through Clause 88, Annex 83A through Annex 83C, Annex 85A, and Annex 86A. This amendment

includes IEEE 802.3 Media Access Control (MAC) parameters, Physical Layer specifications, and management parameters for the transfer of IEEE 802.3 format frames at 40 Gb/s and 100 Gb/s.

**EIA SFF-8436 Rev 4.8 section 5.5 Color Coding** and Labeling of QSFP+ Modules: An exposed feature of the QSFP+ Module (a feature or surface extending outside of the bezel) shall be color coded as follows: Beige for 850nm, Blue for 1310nm, and White for 1550nm. For more information see <ftp://ftp.seagate.com/sff/SFF-8436.PDF>.

## Compliance Information

### Class I Laser Compliance

This product has been tested and found to comply with the limits for FDA Class I laser for IEC60825, EN60825, and 21CFR1040 specifications.

### Translated Safety Warnings

**Warning** Class I laser product.

**Waarschuwing** Klasse-I laser produkt.

**Varoitus** Luokan I lasertuote.

**Attention** Produit laser de classe I

**Warnung** Laserprodukt der Klasse I.

**Avvertenza** Prodotto laser di Classe I.

**Advarsel** Laserprodukt av klasse I.

**Aviso** Produto laser de classe I.

**¡Advertencia!** Producto láser Clase I.

**Varning!** Laserprodukt av klass I.

**Aviso** Produto a laser de classe I.

**Advarsel** Klasse I laserprodukt.

### FCC Regulations

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at the user's own expense.

### Canadian Regulations

This digital apparatus does not exceed the Class A limits for radio noise for digital apparatus set out on the radio interference regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

### European Regulations

#### Warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

#### Achtung !

Dieses ist ein Gerät der Funkstörgrenzwertklasse A. In Wohnbereichen können bei Betrieb dieses Gerätes Rundfunkstörungen auftreten. In diesem Fall ist der Benutzer für Gegenmaßnahmen verantwortlich.

**Attention !**

Ceci est un produit de Classe A. Dans un environnement domestique, ce produit risque de créer des interférences radioélectriques, il appartiendra alors à l'utilisateur de prendre les mesures spécifiques appropriées.



In accordance with European Union Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003, Lantronix will accept post usage returns of this product for proper disposal. The contact information for this activity can be found in the 'Contact Us' portion of this document.

Der Anschluss dieses Gerätes an ein öffentliches Telekommunikationsnetz in den EGMitgliedstaaten verstösst gegen die jeweiligen einzelstaatlichen Gesetze zur Anwendung der Richtlinie 91/263/EWG zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über Telekommunikationsendeinrichtungen einschliesslich der gegenseitigen Anerkennung ihrer Konformität.



CAUTION: RJ connectors are NOT INTENDED FOR CONNECTION TO THE PUBLIC TELEPHONE NETWORK. Failure to observe this caution could result in damage to the public telephone network.

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**Technical Support**

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**Sales Offices**

For a current list of our domestic and international sales offices, go to the Lantronix web site at [www.lantronix.com/about/contact](http://www.lantronix.com/about/contact).