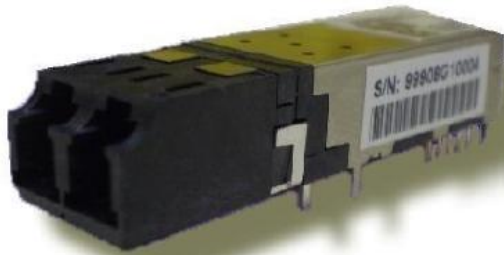


# Stratos

## SLC-25-4-2-Ax Optical Transceiver

Connectivity for  
Business Critical Continuity™



### Gigabit Ethernet / Fiber Channel Applications 1310nm SFF – 1.25 / 1.0625 GBaud

#### Product Overview

The Emerson Network Power Connectivity Solutions SLC-25-4-2-Ax Small Form Factor (SFF) optical transceivers are high performance integrated duplex data links for bi-directional communication over single mode fiber. The SLC-25-4-2-Ax module is specifically designed to be used in single mode Gigabit Ethernet/Fiber Channel applications with data rates up to 1.25GBaud. The SLC-25-4-2-Ax transceivers are provided with the LC receptacle which is compatible with the industry standard LC connector. The Stratos Lightwave SFF transceivers measure 0.532 inches in width. These transceivers provide double port densities by fitting twice the number of transceivers into the same board space as a 1x9 transceiver. This optoelectronic transceiver module is a Class 1 Laser product compliant with FDA Radiation Performance Standards, 21 CFR Subchapter J. This component is also Class 1 Laser compliant according to International Safety Standard IEC-825-1.

#### Applications

Gigabit Ethernet Switch Interface  
Gigabit NIC / Fiber Channel HBA  
High Speed Proprietary Interfaces

#### Ordering Information

SLC - 25 - 4 - 2 - A X

**Mechanical Tabs**  
BLANK=With tabs  
N=No tabs

#### Key Features & Benefits

- 1.25Gbps Gigabit Ethernet Compliant
- 1.0625Gbps Fiber Channel Compliant
- TTL Signal Detect Output
- Transmitter Disable Input
- Low Profile Fits Mezzanine Card Applications
- 100Ω Differential AC Coupled CML Level Outputs
- Single +3.3V Power Supply
- Wave Solderable / Aqueous Washable
- Class 1 Laser Safety Compliant
- RoHS Compliant

#### Module Specifications – Electrical

Parameter	Symbol	MIN	Typical	MAX	Unit
Total Supply Current	Icct			270	mA
<b>Transmitter</b>					
Differential Input Voltage <sup>1</sup>	Vdt	0.2		1.66	V
Disable Input – High	Vdish	2		Vcc	V
Disable Input – Low	Vdisl	0		0.5	V
Fault Output – High	Vtxfh	2		Vcc	V
Fault Output – Low	Vtxfl	0		0.5	V
<b>Receiver</b>					
Differential Output Voltage	Vdr	0.37		2.0	V
SD Output – High	SDoh	2		Vcc+0.3	V
SD Output – Low	SDol	0		0.8	V
Output Data Rise/Fall Time (20% – 80%)	Tr/Tf		220		pS

1. Internally AC coupled and terminated to 100Ω load

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## SLC-25-4-2-Ax Optical Transceiver

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### Module Specifications – Optical

Parameter	Symbol	MIN	Typical	MAX	Unit
<b>Transmitter</b>					
Output Optical Power	Po	-9.0		-3	dBm
Extinction Ratio		9			dB
Center Wavelength		1280	1310	1355	nm
Spectral Width (RMS)				4	nm
Rise / Fall Time (20% - 80%)	Tr/Tf	0		260	pS
<b>Receiver</b>					
Sensitivity (Avg) <sup>1</sup>	Pin			-20	dBm
Input Wavelength		1260		1620	nm
SD Deasserted	Pd	-35			dBm
SD Asserted	Pa			-20	dBm
SD Hysteresis	Pa-Pd	0.5			dB
Overload	Pol	-3	0		dBm

1. BER of 10<sup>-12</sup>

*For more information on this product consult the SLC-25-4-2-Ax product data sheet.*

#### IMPORTANT NOTICE

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