

DIS-S301SX

1000BASE-SX Multi-Mode 550M LC SFP Transceiver

-40 to 85 °C operating temperature

External Specification

H/W Version: A1

By: Islie Yu

Switch & Security SBU

2018/3/23

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Revision History

Version	Revised Date	Author	Content Revised
1.0	2018/3/23	Islie Yu	First Release

1. Product Description

The transceivers provide the necessary signal amplification for data to be transmitted to the network cable from the port, and vice versa, for the port to receive data from the network cable.

Applications of these transceivers include distributed multi-processing, Gigabit switch cascading, high-speed I/O file transfer, bus extension application, and channel extender/data storage.

All GBIC and SFP transceivers are standard-based and hot swappable. You can remove or replace the GBIC transceiver with the system powered on. This permits modules and transceivers to be added or swapped without interrupting amplification for data to be transmitted to the network the network operation.

Contrast to commercial optical transceivers with operating temperature 0~70 °C, the industrial optical transceivers with higher operating temperature -40~85 °C, which allows it applied in a relatively harsh environments such as remote mountain areas and tunnel etc.

2. Product Specification

	Model	DIS-S301SX
	Description	Gigabit Multi-Mode 550M SFP Transceiver (-40 to 85 °C operating temperature)
	HW ver.	A1
Features	Hot Pluggable	V
	MSA Compliant	V
	RoHS Compliant	V
Standard	Compliant Standard	IEEE802.3z 1000BASE-SX
	Transceiver Type	SFP
	Fiber Channel FC-Pi standard	100-M6-SN-I/100-M5-SN-I
	Fiber Media support	Multi-Mode
	Distance	62.5/125um: 300m 50/125um: 550m
Speed		1.25Gbps
Interface	connector	Duplex LC Connector
	single/bi Direction	single-direction
	Wavelength	850nm
	Output Optical Power (TX Optical Power)	MAX.: -3dBm
		MIN.: -8 dBm
	Input Optical Power (RX Optical Power)	MAX.: - 3 dBm
		MIN.: - 22 dBm
	Sensitivity	-22dBm
	Cable Type	multi-mode 50/125um or 62.5/125um fiber
Operating	Power	3.3V
	Max Input Current	300mA
	Power Budget (MIN Power Budget)	14d B
	MAX Power Budget	19d B

	Heat Generated	1.782kJ/h
MTBF (hours)		224,167 hours
Function	DDM (Digital Diagnostics Monitoring)*	No support
Physical & Environment	Operation Temperature	-40~85°C
	Storage Temperature	-40~85°C
	Humidity (Operating)	5%~95%
	Humidity (Storage)	5%~95%
	Dimension (W x D x H)mm	13.7mm x 55.4mm x 8.5mm
	Weight(g)	20g
	Bail latch color	Black
Emission (EMI) and Safety Certifications	EMI	CE, FCC, VCCI
	Safety	LVD, EN60825-1, EN 60825-2

DIS-S302SX

1000BASE-SX Multi-Mode 2KM LC SFP Transceiver

-40 to 85 °C operating temperature

External Specification

H/W Version: A1

**By: Islie Yu
Switch & Security SBU
2018/3/23**

without the written consent of D-Link Corporation.

DIS-S302SX Specification Revision History

Version	Revised Date	Author	Content Revised
1.0	2018/3/23	Islie Yu	First Release

1. Product Description

The transceivers provide the necessary signal amplification for data to be transmitted to the network cable from the port, and vice versa, for the port to receive data from the network cable.

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Contrast to commercial optical transceivers with operating temperature 0~70°C, the industrial optical transceivers with higher operating temperature -40~85°C, which allows it applied in a relatively harsh environments such as remote mountain areas and tunnel etc.

2. Product Specification

	Model		DIS-S302SX		
	Description		Gigabit Multi-Mode 2KM SFP Transceiver (-40 to 85 °C operating temperature)		
	HW ver		A1		
Features	Hot Pluggable		V		
	MSA Compliant		V		
	RoHS Compliant		V		
Standard	Compliant Standard		IEEE802.3z 1000BASE-SX		
	Transceiver Type		SFP		
	Fiber Channel FC-PI standard		-		
	Fiber Media support		Multi-Mode		
	Distance	Max. Distance or other supported cable type		62.5/125um fiber: 1km 50/125um fiber: 2km	
		62.5/125um OM1		1km	
		50/125um OM2		1km	
		50/125um OM3		2km	
		50/125um OM4		2km	
Speed				1.25Gbps	
Interface	Connector		Duplex LC Connector		
	Direction		single-direction		
	Wavelength (nm)		1310 nm		
	Output Optical Power (TX Optical Power)	Max. (dBm)	-3dBm		
		Min. (dBm)	-9dBm		
	Input Optical Power (RX Optical Power)	Max. (dBm)	-3dBm		
		Min. (dBm)	-22dBm		

	Sensitivity (dBm)	-22dBm
	Cable Type	Multi-mode 50/125um or 62.5/125um fiber
Operating	Power (V)	3.3V
	Max Input Current (mA)	300mA
	Power Budget (MIN Power Budget) (dB)	13dB
	MAX Power Budget (dB)	19dB
	Heat Generated (kJ/h)	2.376 kJ/h
MTBF (hours)		224,167 hours
DDM (Digital Diagnostics Monitoring)*		Not support
Physical & Environment	Operation Temperature (°C)	-40-85°C
	Storage Temperature (°C)	-40-85°C
	Operating Humidity (%)	5% ~ 95%
	Storage Humidity (%)	5% ~ 95%
	Dimension (W x D x H mm)	13.7mm x 55.4mm x 8.5mm
	Weight (g)	20g
Certifications	Bail latch color	Blue
	Emission (EMI)	FCC Class B CE Class B, VCCI Class B
	Safety	LVD, EN 60825-1, EN 60825-1

DIS-S310LX

1000BASE-LX Single-Mode 10KM LC SFP Transceiver

-40 to 85 °C operating temperature

External Specification

H/W Version: A1

By: Islie Yu

Switch & Security SBU

2018/3/23

without the written consent of D-Link Corporation.

Revision History

Version	Revised Date	Author	Content Revised
1.00	2018/3/23	Islie Yu	First Release

1 Product Description

The transceivers provide the necessary signal amplification for data to be transmitted to the network cable from the port, and vice versa, for the port to receive data from the network cable.

Applications of these transceivers include distributed multi-processing, Gigabit switch cascading, high-speed I/O file transfer, bus extension application, and channel extender/data storage.

All GBIC and SFP transceivers are standard-based and hot swappable. You can remove or replace the GBIC transceiver with the system powered on. This permits modules and transceivers to be added or swapped without interrupting amplification for data to be transmitted to the network the network operation.

Contrast to commercial optical transceivers with operating temperature 0~70°C, the industrial optical transceivers with higher operating temperature -40~85°C, which allows it applied in a relatively harsh environments such as remote mountain areas and tunnel etc.

2 Product Specification

	Model	DIS-S310LX
	Description	Gigabit Single-Mode 10KM SFP Transceiver (-40 to 85 °C operating temperature)
	HW ver.	A1
Features	Hot Pluggable	V
	MSA Compliant	V
	RoHS Compliant	V
Standard	Compliant Standard	IEEE802.3z 1000BASE-LX
	Transceiver Type	SFP
	Fiber Channel FC-PI standard	100-SM-LC-L
	Fiber Media support	Single-Mode
	Distance	10km
Speed		1.25Gbps
Interface	connector	Duplex LC Connector
	single/bi Direction	single-direction
	Wavelength	1310nm
	Output Optical Power (TX Optical Power)	MAX.: -3dBm
		MIN.: -8 dBm
	Input Optical Power (RX Optical Power)	MAX.: - 3 dBm
		MIN.: - 24 dBm
Operating	Sensitivity	-24dBm
	Cable Type	single-mode 9/125um fiber
	Power	3.3V
	Max Input Current	300mA
	Power Budget	16dB

	(MIN Power Budget)	
	MAX Power Budget	21dB
	Heat Generated	2.376 kJ/h
MTBF (hours)		223,857 hours
Function	DDM (Digital Diagnostics Monitoring)*	Not support
Physical & Environment	Operation Temperature	-40~85°C
	Storage Temperature	-40~85°C
	Humidity (Operating)	5%~95%
	Humidity (Storage)	5%~95%
	Dimension (W x D x H)mm	13.7mm x 55.4mm x 8.5mm
	Weight(g)	20g
	Bail latch color	Blue
Emission (EMI) and Safety Certifications	EMI	CE, FCC, VCCI
	Safety	LVD, EN 60825-1, EN 60825-2

DIS-S330EX

1000BASE-EX Single-Mode 30KM LC SFP Transceiver

-40 to 85 °C operating temperature

External Specification

H/W Version: A1

By: Islie Yu

Switch & Security SBU

2018/5/15

without the written consent of D-Link Corporation.

Revision History

Version	Revised Date	Author	Content Revised
1.00	2018/5/2	Islie Yu	First Release
1.01	2018/5/15	Islie Yu	correct compliant standard

1 Product Description

The transceivers provide the necessary signal amplification for data to be transmitted to the network cable from the port, and vice versa, for the port to receive data from the network cable.

Applications of these transceivers include distributed multi-processing, Gigabit switch cascading, high-speed I/O file transfer, bus extension application, and channel extender/data storage.

All GBIC and SFP transceivers are standard-based and hot swappable. You can remove or replace the GBIC transceiver with the system powered on. This permits modules and transceivers to be added or swapped without interrupting amplification for data to be transmitted to the network the network operation.

Contrast to commercial optical transceivers with operating temperature 0~70°C,the industrial optical transceivers with higher operating temperature -40~85°C,which allows it applied in a relatively harsh environments such as remote mountain areas and tunnel etc.

2 Product Specification

	Model	DIS-S330EX
	Description	Gigabit Single-Mode 30KM SFP Transceiver (-40 to 85 °C operating temperature)
	HW ver.	A1
Features	Hot Pluggable	V
	MSA Compliant	V
	RoHS Compliant	V
Standard	Compliant Standard	1000BASE-EX
	Transceiver Type	SFP
	Fiber Channel FC-PI standard	100-SM-LC-L
	Fiber Media support	Single-Mode
	Distance	30km
Speed		1.25Gbps
Interface	connector	Duplex LC Connector
	single/bi Direction	single-direction
	Wavelength	1310nm
	Output Optical Power (TX Optical Power)	MAX.: 0 dBm MIN.: -5 dBm
	Input Optical Power (RX Optical Power)	MAX.: - 3 dBm MIN.: - 24 dBm
	Sensitivity	-24dBm
	Cable Type	single-mode 9/125um fiber
Operating	Power	3.3V
	Max Input Current	300mA
	Power Budget	19dB

	(MIN Power Budget)	
	MAX Power Budget	21dB
	Heat Generated	2.376 kJ/h
MTBF (hours)		223,857 hours
Function	DDM (Digital Diagnostics Monitoring)*	Not support
Physical & Environment	Operation Temperature	-40~85°C
	Storage Temperature	-40~85°C
	Humidity (Operating)	5%~95%
	Humidity (Storage)	5%~95%
	Dimension (W x D x H)mm	13.7mm x 55.4mm x 8.5mm
	Weight(g)	20g
	Bail latch color	Blue
Emission (EMI) and Safety Certifications	EMI	CE, FCC, VCCI
	Safety	LVD, EN 60825-1, EN 60825-2

DIS-S350LHX

1000BASE-LHX Single-Mode 50KM SFP Transceiver

-40 to 85 °C operating temperature

External Specification

H/W Version: A1

**By: Islie Yu
Switch & Security SBU
2018/3/23**

without the written consent of D-Link Corporation.

DIS-S350LHX Specification Revision History

Version	Revised Date	Author	Content Revised
1.0	2018/3/23	Islie Yu	First Release

1. Product Description

The transceivers provide the necessary signal amplification for data to be transmitted to the network cable from the port, and vice versa, for the port to receive data from the network cable.

Applications of these transceivers include distributed multi-processing, Gigabit switch cascading, high-speed I/O file transfer, bus extension application, and channel extender/data storage.

All GBIC and SFP transceivers are standard-based and hot swappable. You can remove or replace the GBIC transceiver with the system powered on. This permits modules and transceivers to be added or swapped without interrupting amplification for data to be transmitted to the network the network operation.

Contrast to commercial optical transceivers with operating temperature 0~70℃, the industrial optical transceivers with higher operating temperature -40~85℃, which allows it applied in a relatively harsh environments such as remote mountain areas and tunnel etc.

2. Product Specification

	Model		DIS-S350LHX		
	Description		Gigabit Single-Mode 50KM SFP Transceiver (-40 to 85 °C operating temperature)		
	HW ver		A1		
Features	Hot Pluggable		V		
	MSA Compliant		V		
	RoHS Compliant		V		
Standard	Compliant Standard		IEEE802.3z 1000BASE-LHX		
	Transceiver Type		SFP		
	Fiber Channel FC-PI standard		100-SM-LL-V		
	Fiber Media support		Single-Mode		
	Distance	Max. Distance or other supported cable type		50Km	
		9/125um OS1		60Km	
9/125um OS2		60Km			
Speed			1.25Gbps		
Interface	Connector		Duplex LC Connector		
	Direction		single-direction		
	Wavelength (nm)		1550nm		
	Output Optical Power (TX Optical Power)	Max. (dBm)	3dBm		
		Min. (dBm)	-3dBm		
	Input Optical Power (RX Optical Power)	Max. (dBm)	-3dBm		
		Min. (dBm)	-24dBm		
Sensitivity (dBm)		-24dBm			
Cable Type		Single-mode 9/125um fiber			
Operating	Power (V)		3.3V		

	Max Input Current (mA)	300mA
	Power Budget (MIN Power Budget) (dB)	21dB
	MAX Power Budget (dB)	27dB
	Heat Generated (kJ/h)	2.376 kJ/h
MTBF (hours)		217,369 hours
DDM (Digital Diagnostics Monitoring)*		Not support
Physical & Environment	Operation Temperature (°C)	-40°~85°C
	Storage Temperature (°C)	-40°~85°C
	Operating Humidity (%)	5%~95%
	Storage Humidity (%)	5%~95%
	Dimension (W x D x H mm)	13.7mm x 55.4mm x 8.5mm
	Weight (g)	20g
Bail latch color		Green
Certifications	Emission (EMI)	FCC Class B, ICES-003 Class B, CE Class B,
	Safety	LVD, EN 60825-1, EN 60825-2

DIS-S380ZX

1000BASE-ZX Single-Mode 80KM SFP Transceiver

-40 to 85 °C operating temperature

External Specification

H/W Version: A1

**By: Islie Yu
Switch & Security SBU
2018/3/23**

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DIS-S380ZX Specification Revision History

Version	Revised Date	Author	Content Revised
1.0	2018/3/28	Islie Yu	First Release

1. Product Description

The transceivers provide the necessary signal amplification for data to be transmitted to the network cable from the port, and vice versa, for the port to receive data from the network cable.

Applications of these transceivers include distributed multi-processing, Gigabit switch cascading, high-speed I/O file transfer, bus extension application, and channel extender/data storage.

All GBIC and SFP transceivers are standard-based and hot swappable. You can remove or replace the GBIC transceiver with the system powered on. This permits modules and transceivers to be added or swapped without interrupting amplification for data to be transmitted to the network the network operation.

Contrast to commercial optical transceivers with operating temperature 0~70°C, the industrial optical transceivers with higher operating temperature -40~85°C, which allows it applied in a relatively harsh environments such as remote mountain areas and tunnel etc

2. Product Specification

	Model		DIS-S380ZX
	Description		Gigabit Single-Mode 80KM SFP Transceiver
	HW ver		A1
Features	Hot Pluggable		V
	MSA Compliant		V
	RoHS Compliant		V
Standard	Compliant Standard		IEEE802.3z 1000BASE-ZX
	Transceiver Type		SFP
	Fiber Channel FC-PI standard		100-SM-LL-V
	Fiber Media support		Single-Mode
	Distance		80KM
Speed			1.25Gbps
Interface	Connector		Duplex LC Connector
	Direction		single-direction
	Wavelength (nm)		1550 nm
	Output Optical Power (TX Optical Power)	Max. (dBm)	5dBm
		Min. (dBm)	0dBm
	Input Optical Power (RX Optical Power)	Max. (dBm)	-3dBm
		Min. (dBm)	-24dBm
	Sensitivity (dBm)		-24dBm
Cable Type		Single-mode 9/125um fiber	
Operating	Power (V)		3.3V
	Max Input Current (mA)		300mA
	Power Budget (MIN Power Budget) (dB)		24 dB
	MAX Power Budget (dB)		29 dB
	Heat Generated (kJ/h)		2.376 kJ/h
MTBF (hours)			217,046 hours
DDM (Digital Diagnostics Monitoring)*			No support

Physical & Environment	Operation Temperature (°C)	-40-85°C
	Storage Temperature (°C)	-40-85°C
	Operating Humidity (%)	5% ~ 95%
	Storage Humidity (%)	5% ~ 95%
	Dimension (W x D x H mm)	13.7mm x 55.4mm x 8.5mm
	Weight (g)	20 g
	Bail latch color	Green
Certifications	Emission (EMI)	CE, FCC, VCCI
	Safety	LVD, EN 60825-1, EN 60825-2