120G CXP To 40G 3QSFP+ AOC 100m

SLCX-3Q-120AOC-XX

Features

- QSFP+ End compliant to SFF-8436
- CXP End compliant to SFF-8642 and IBTA V2 Revision 1.2.1 Annex A6
- Full duplex 12CH 850nm parallel active optical cable
- Transmission data rate up to 10.3Gbit/s per channel
- Hot pluggable electrical interface
- Differential AC-coupled high speed data interface
- 12 channels 850nm VCSEL array
- 12 channels PIN photo detector array
- Up to 100m on OM3 MMF
- 3.3V power supply voltage
- Low power consumption: CXP End< 2W,QSFP End<1W
- Operating case temperature 0℃ to +70°C
- RoHS 6 compliant

Overview

CXP to 3xQSFP active optic cables are a high performance, low power consumption, long reach interconnect solution supporting 120G Ethernet, fiber channel and PCIe.

It is compliant with the 120Gbits Small Form factor Hot-Pluggable CXP-interface and QSFP-interface. Sourcelight CXP to 3xQSFP is an assembly of 12 full-duplex lanes, where each lane is capable of transmitting data at rates up to 10Gb/s, providing an aggregated rate of 120Gb/s.

Applications

- InfiniBand 12xSDR,12xDDR,12xQDR
- Ethernet 10G,40G,100G
- Rack-to-Rack, Shelf-to-Shelf Interconnect
- Networking, NIC
- Storage: DAS, SAN, NAS
- Hubs, Switches, Routers, Servers

Ordering Information

Part Number	Product Description
SLCX-3Q-120AOC-XX	120Gbps CXP to 40G 3QSFP+, Active Optical Cable, 100m on OM3 MMF, 0ºC ~ +70ºC
XX : 01~100, 1~100Length in meters on OM3 MMF	

QSFP interface Specifications

Parameter	Description
Module Form Factor	QSFP+ (Supports SFF8436/SFF8472)
Channel Data Rate	Rate 40Gbps
BER	$<10^{-12}$
Operating Case Temperature	0 to + 70ºC
Storage Temperature	-20 to + 85ºC
Supply Voltage	3.3V nominal
Supply current	180mA per end typical
Management Interface Serial	I^2C (Supports SFF8472)

CXP interface Specifications

Parameter	Description
Module Form Factor	CXP (Supports SFF-8642)
Channel Data Rate	Rate 1 to 10.3125Gbps
BER	$<10^{-12}$
Operating Case Temperature	0 to + 70ºC
Storage Temperature	-20 to + 85ºC
Supply Voltage	3.3V nominal
Supply current	500mA maximum
Management Interface Serial	I^2C (Supports SFF8472)

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply Voltage	Vcc	-0.3	3.6	V
Input Voltage	Vin	-0.3	Vcc+0.3	V
Storage Temperature	Tst	-20	85	ºC
Case Operating Temperature	Top	0	70	ºC
Humidity(non-condensing)	Rh	5	95	%

Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Supply Voltage	Vcc	3.13	3.3	3.47	V
Operating Case temperature	Tca	0		70	ºC
Data Rate Per Lane	fd	2.5		10.3	Gbps
Humidity	Rh	5		85	%
Fiber Bend Radius	Rb	3			cm

Specifications

Parameter	Symbol	Min	Typical	Max	Unit
Differential input impedance	Zin	90	100	110	ohm
Differential Output impedance	Zout	90	100	110	ohm
Differential input voltage amplitude aAmplitude	ΔVin	300		1100	mVp-p
Differential output voltage amplitude	ΔVout	500		800	mVp-p
Skew	Sw			300	ps
Bit Error Rate	BR			E-12	
Input Logic Level High	VIH	2.0		VCC	V
Input Logic Level Low	VIL	0		0.8	V
Output Logic Level High	VOH	VCC-0.5		VCC	V
Output Logic Level Low	VOL	0		0.4	V

Note:

1. BER=10^-12; PRBS 2^31-1@10.3125Gbps.
2. Differential input voltage amplitude is measured between TxNp and TxNn.
3. Differential output voltage amplitude is measured between RxNp and RxNn.

Mechanical Dimensions

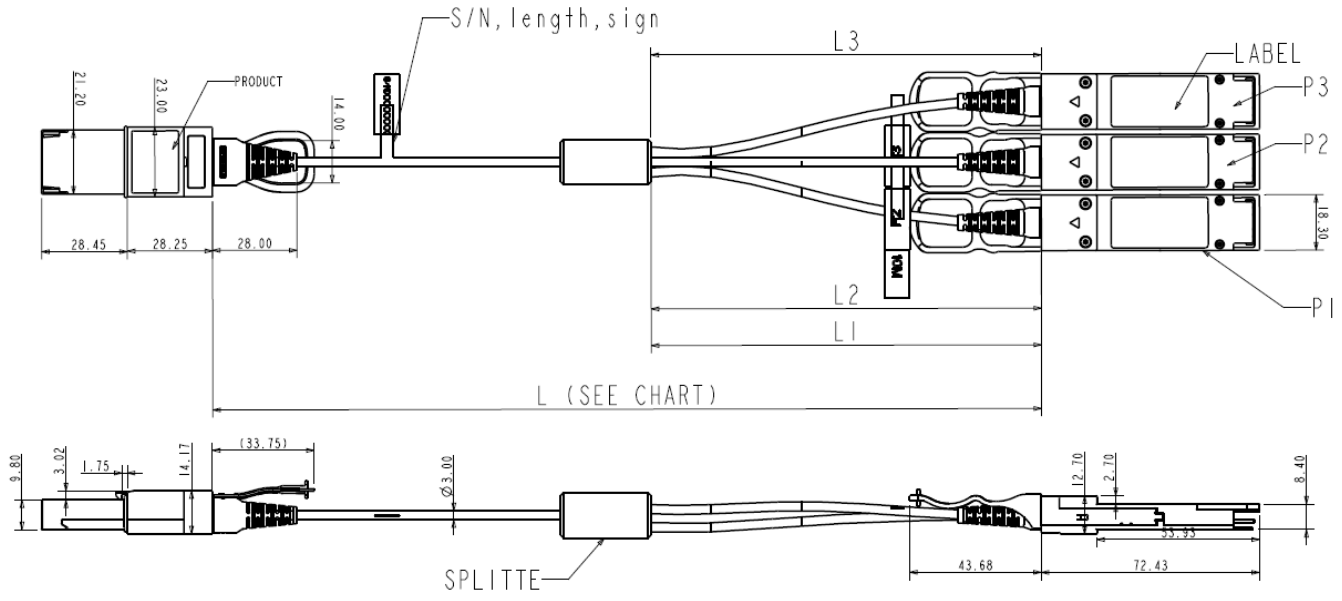

Figure1. Mechanical Specifications

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