

## 800 Gb/s DR8 OSFP 500m Optical Transceiver

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### OSFP Series



- **Dual MPO-12 connector**
- **Support multi-rate operation**
- **Single 3.3V Power Supply**
- **Power consumption < 16W**
- **Safety Certification:**  
**TUV/UL/FDA\*1**
- **PIN and TIA array on the receiver side**
- **EML 1310nm transmitter**
- **RoHS compliant**

Ascent's OSFP-800G-DR8-05 transceiver module is designed for use in 800 Gigabit Ethernet links over 500m single mode fiber. The module has 8 independent electrical input/output channels operating up to 106.25Gbps per channel.

This transceiver consists of two transmitter/receiver units, with each operating on a set of wavelengths on the ITU G.694.2 CWDM at 1310nm.

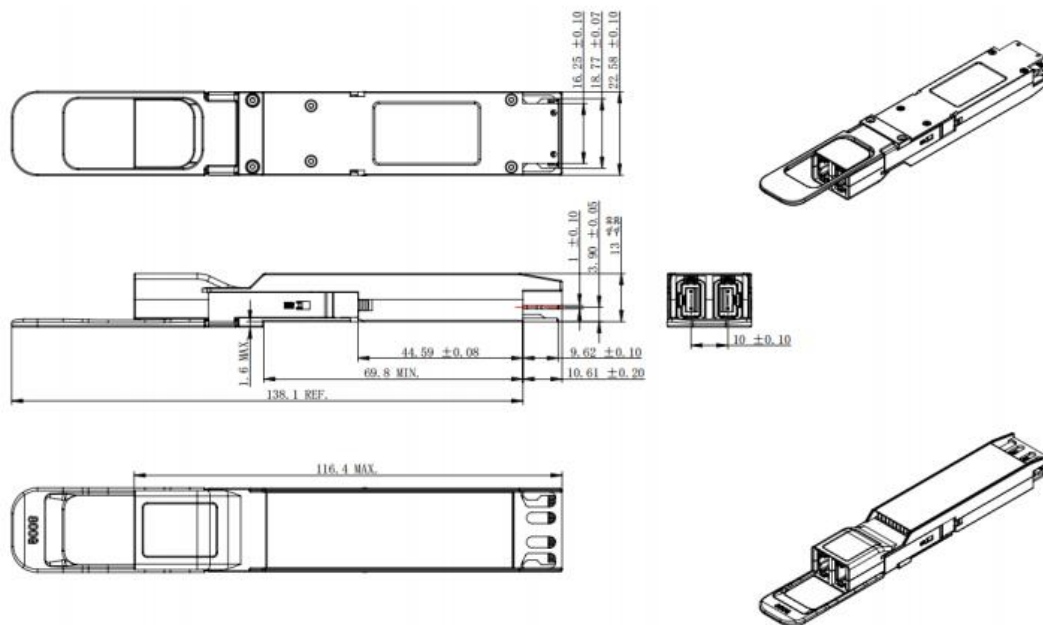
The transmitter path of the module incorporates a bi-directional PAM4 re-timer ASIC integrated with EML laser and 8-channel internal driver. On the receiver path, used 8 photodiodes and two 4-channel TIA arrays, along with the PAM4 re-timer.

This transceiver is compliant with IEEE P802.3ck, IEEE 802.3cu, OSFP MSA. The built-in digital diagnostics monitoring (DDM) allows access to real-time operating parameters.

## Key Features

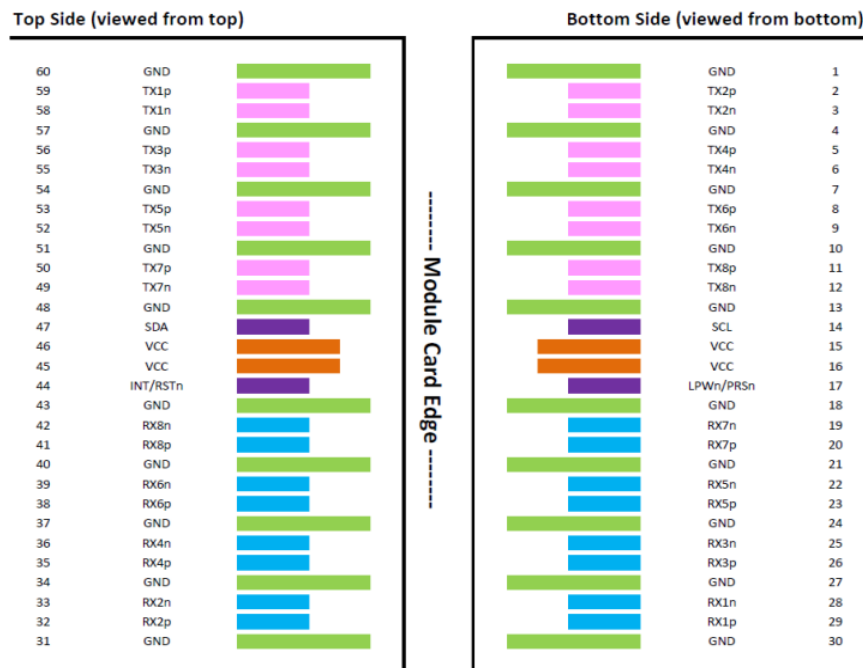
- 0 to 500m over SMF with KP4 FEC supported at the Host side
- Dual MPO-12 connector
- Support multi-rate operation
- EML 1310nm transmitter
- PIN and TIA array on the receiver side
- Power consumption < 16W
- Case temperature range: 0°C to 70°C (commercial)
- Safety Certification: TUV/UL/FDA\*1
- RoHS Compliant

## Mechanical Dimensions



The optical interface port is a male Dual MPO-12 connector as specified in IEC 61754-7-1.  
Mates with two standard type MPO-12 female plug connectors with down-angled interface.

## Pin Assignment



Pin #	Logic	Symbol	Description	Plug Sequence	Notes
1		GND	Ground	1	1
2	CML-I	Tx2p	Transmitter Data Non-Inverted	3	
3	CML-I	Tx2n	Transmitter Data Inverted	3	
4		GND	Ground	1	1
5	CML-I	Tx4p	Transmitter Data Non-Inverted	3	
6	CML-I	Tx4n	Transmitter Data Inverted	3	
7		GND	Ground	1	1
8	CML-I	Tx6p	Transmitter Data Non-Inverted	3	
9	CML-I	Tx6n	Transmitter Data Inverted	3	
10		GND	Ground	1	1
11	CML-I	Tx8p	Transmitter Data Non-Inverted	3	
12	CML-I	Tx8n	Transmitter Data Inverted	3	
13		GND	Ground	1	1
14	LVC MOS-I/O	SCL	2-wire Serial interface clock	3	2
15		VCC	+3.3V Power	2	
16		VCC	+3.3V Power	2	
17	Multi-Level	LPWn/PRSn	Low-Power Mode/Module Present	3	
18		GND	Ground	1	1
19	CML-O	Rx7n	Receiver Data Inverted	3	
20	CML-O	Rx7p	Receiver Data Non-Inverted	3	
21		GND	Ground	1	1
22	CML-O	Rx5n	Receiver Data Inverted	3	
23	CML-O	Rx5p	Receiver Data Non-Inverted	3	
24		GND	Ground	1	1
25	CML-O	Rx3n	Receiver Data Inverted	3	
26	CML-O	Rx3p	Receiver Data Non-Inverted	3	

Pin #	Logic	Symbol	Description	Plug Sequence	Notes
27		GND	Ground	1	1
28	CML-O	Rx1n	Receiver Data Inverted	3	
29	CML-O	Rx1p	Receiver Data Non-Inverted	3	
30		GND	Ground	1	1
31		GND	Ground	1	1
32	CML-O	Rx2p	Receiver Data Non-Inverted	3	
33	CML-O	Rx2n	Receiver Data Inverted	3	
34		GND	Ground	1	1
35	CML-O	Rx4p	Receiver Data Non-Inverted	3	
36	CML-O	Rx4n	Receiver Data Inverted	3	
37		GND	Ground	1	1
38	CML-O	Rx6p	Receiver Data Non-Inverted	3	
39	CML-O	Rx6n	Receiver Data Inverted	3	
40		GND	Ground	1	1
41	CML-O	Rx8p	Receiver Data Non-Inverted	3	
42	CML-O	Rx8n	Receiver Data Inverted	3	
43		GND	Ground	1	1
44	Multi-Level	INT/RSTn	Module input/Module Reset	3	
45		VCC	+3.3V Power	2	
46		VCC	+3.3V Power	2	
47	LVCMOS-I/O	SCL	2-wire Serial interface Data	3	2
48		GND	Ground	1	1
49	CML-I	Tx7n	Transmitter Data Inverted	3	
50	CML-I	Tx7p	Transmitter Data Non-Inverted	3	
51		GND	Ground	1	1
52	CML-I	Tx5n	Transmitter Data Inverted	3	
53	CML-I	Tx5p	Transmitter Data Non-Inverted	3	
54		GND	Ground	1	1
55	CML-I	Tx3n	Transmitter Data Inverted	3	
56	CML-I	Tx3p	Transmitter Data Non-Inverted	3	
57		GND	Ground	1	1
58	CML-I	Tx1n	Transmitter Data Inverted	3	
59	CML-I	Tx1p	Transmitter Data Non-Inverted	3	
60		GND	Ground	1	1

## Notes

- OSFP uses common ground (GND) for all signals and supply (power). All are common within the OSFP module and all module voltages are referenced to this potential unless otherwise noted.
- Open-Drain with pull up resistor on Host.

## Control Interface & Memory Map

The control interface combines dedicated signal lines for LPWn/PRSn, INT/RSTn with two-wire serial (TWS), interface clock (SCL) and data (SDA), signals to provide users rich functionality over an efficient and easily used interface.

## SCL and SDA

SCL and SDA are a 2-wire serial interface between the host and module using the I2C or I3C protocols. SCL is defined as the serial interface clock signal and SDA as the serial interface data signal. Both signals are open-drain and require pull-up resistors to +3.3V on the host. The pull-up resistor value shall be 1k ohms to 4.7k ohms depending on capacitive load.

This 2-wire interface supports bus speeds:

- Required - I2C Fast-mode (Fm)  $\leq$  400 kbit/s

- Optional - I2C Fast-mode Plus (Fm+)  $\leq 1$  Mbit/s
- Optional - I3C Single Data Rate (SDR)  $\leq 12.5$  Mbit/s

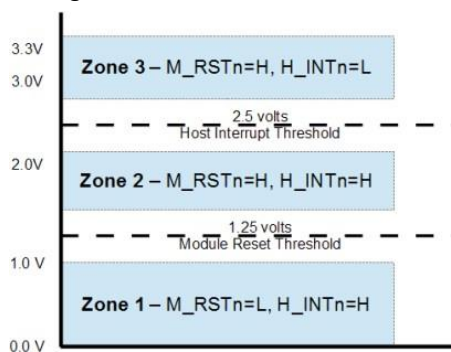
The host shall default to using 100 kbit/s standard-mode I2C when first accessing an unidentified module for backward compatibility. Once the module has been brought out of reset, the host can read the module's 2-wire interface speed register to determine the maximum supported speed the module allows. For an OSFP, the host may then use I2C Fast-mode, I2C Fast-mode Plus or I3C Single Data Rate, as indicated by the module. It is optional for the host to change the speed of the 2-wire interface but remaining at a low speed could lead to slow management transactions for modules that require frequent accesses.

SCL and SDA signals follow the electrical specifications of Fast-mode, and Fast-mode Plus as defined in the I2C -bus specification or Single Data Rate mode as defined in the Specification for I3C.

### INT/RSTn

INT/RSTn is a dual function signal that allows the module to raise an interrupt to the host and also allows the host to reset the module. The circuit shown in OSFP MSA enables multi-level signaling to provide direct signal control in both directions. Reset is an active low signal on the host which is translated to an active-low signal on the module. Interrupt is an active-high signal on the module which gets translated to an active-low signal on the host.

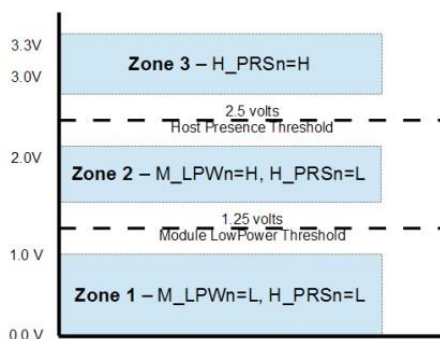
The INT/RSTn signal operates in 3 voltage zones to indicate the state of Reset for the module and Interrupt for the host. Figure 11 shows these 3 zones. The host uses a voltage reference at 2.5 volts to determine the state of the H\_INTn signal and the module uses a voltage reference at 1.25V to determine the state of the M\_RSTn signal.



### LPWn/PRSn

LPWn/PRSn is a dual function signal that allows the host to signal Low Power mode and the module to indicate Module Present. The circuit shown in OSFP MSA enables multi-level signaling to provide direct signal control in both directions. Low Power mode is an active-low signal on the host which gets converted to an active-low signal on the module. Module Present is controlled by a pull-down resistor on the module which gets converted to an active-low logic signal on the host.

The LPWn/PRSn signal operates in 3 voltage zones to indicate the state of Low Power mode for the module and Module Present for the host. Figure 12 shows these 3 zones. The host uses a voltage reference at 2.5 volts to determine the state of the H\_PRSn signal and the module uses a voltage reference at 1.25V to determine the state of the M\_LPWn signal.



## SCL and SDA Pin Electrical Characteristics

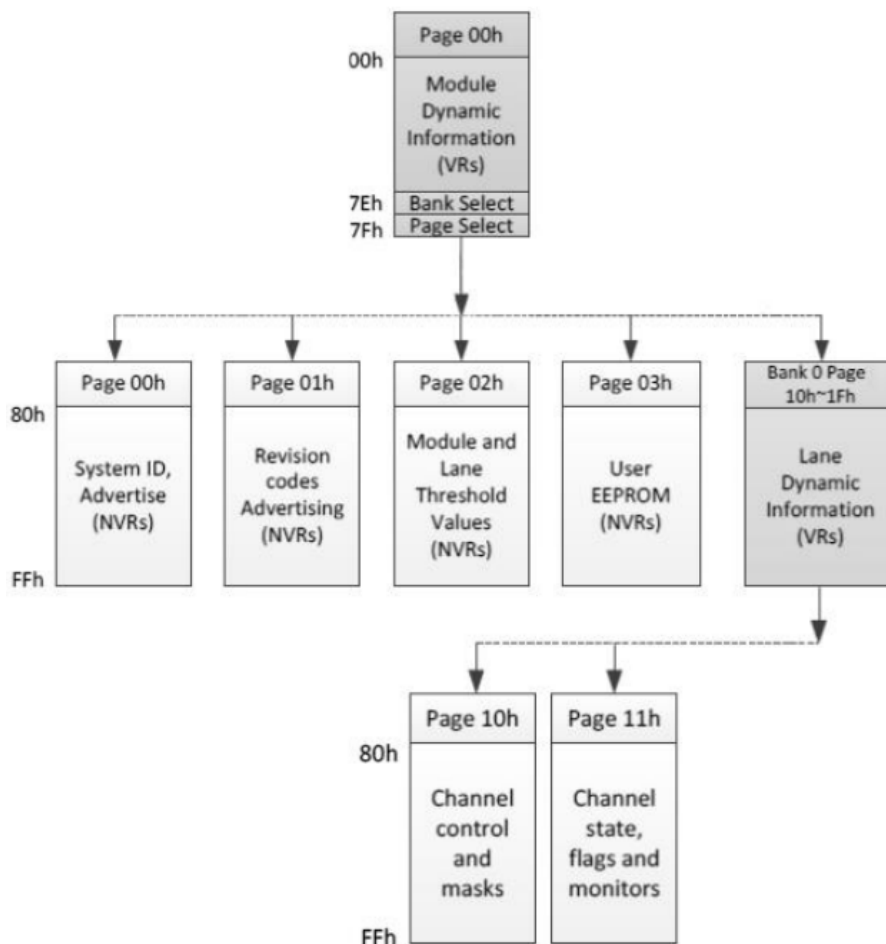
Parameter	Symbol	Min.	Typ.	Max.	Unit
SCL and SDA	VOL	0		0.4	V
	VOH	$V_{CC}-0.5$		$V_{CC}+0.3$	V
	VIL	-0.3		$V_{CC}*0.3$	V
	VIH	$V_{CC}*0.7$		$V_{CC}+0.5$	V

## Memory Map

The control interface and memory map of the OSFP module is compliant with the OSFP MSA. The OSFP module support I2C interface protocol defined by the OSFP MSA. Access clock frequency support a minimum of 100 kHz with no clock stretching and burst read/write of at least 32 bytes.

The module meets the following requirements:

- The module initialize in hardware mode when LPWn is de-asserted.
- The transmitter is disabled when the module is held in reset.
- Tx Squelch function is implemented as defined by the OSFP MSA. When squelched, the transmitter remains on with the modulation turned off.
- Rx Squelch function is implemented as defined by the OSFP MSA. When Rx CDR LOS is asserted, CDR output is squelched.

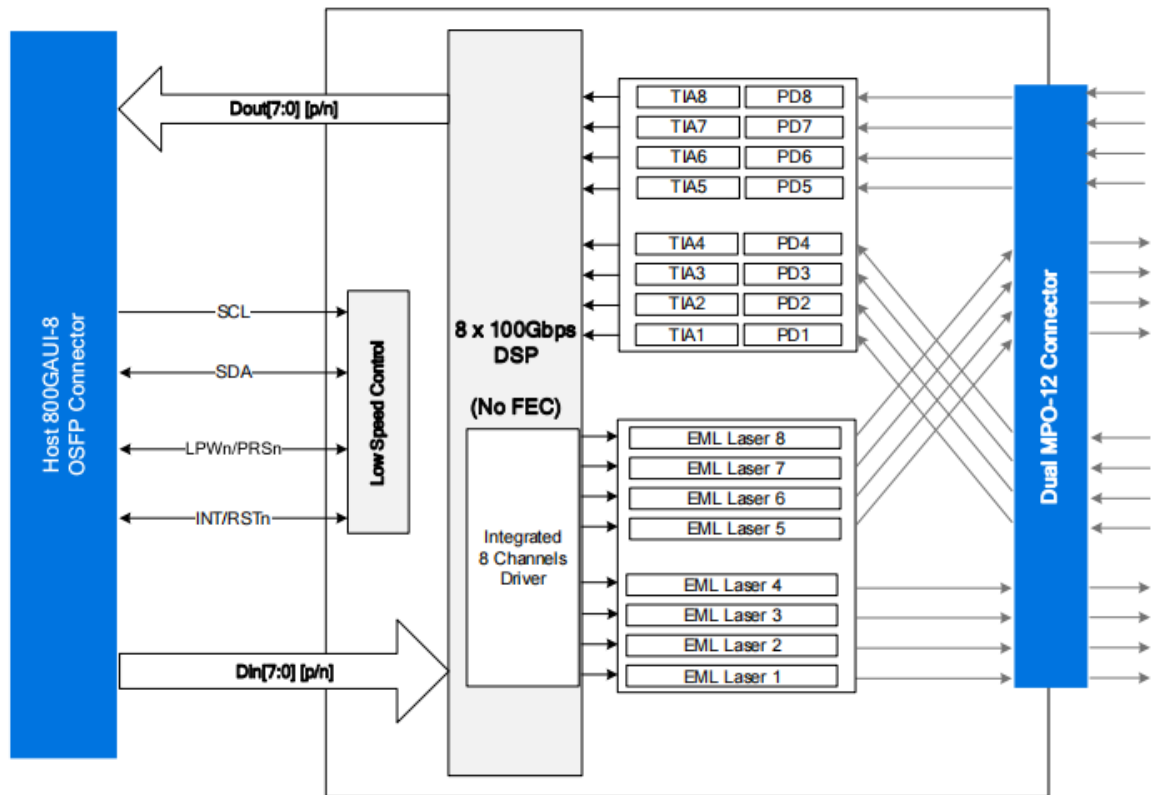


## Module Configuration

### Transmitter

As shown in below figure, the transmitter path of the transceiver contains an 8x25Gbps 2xCAUI-4 electrical input with Equalization (EQ) block, optical multiplexer, DML laser driver, diagnostic monitors and 8 directly modulated laser.

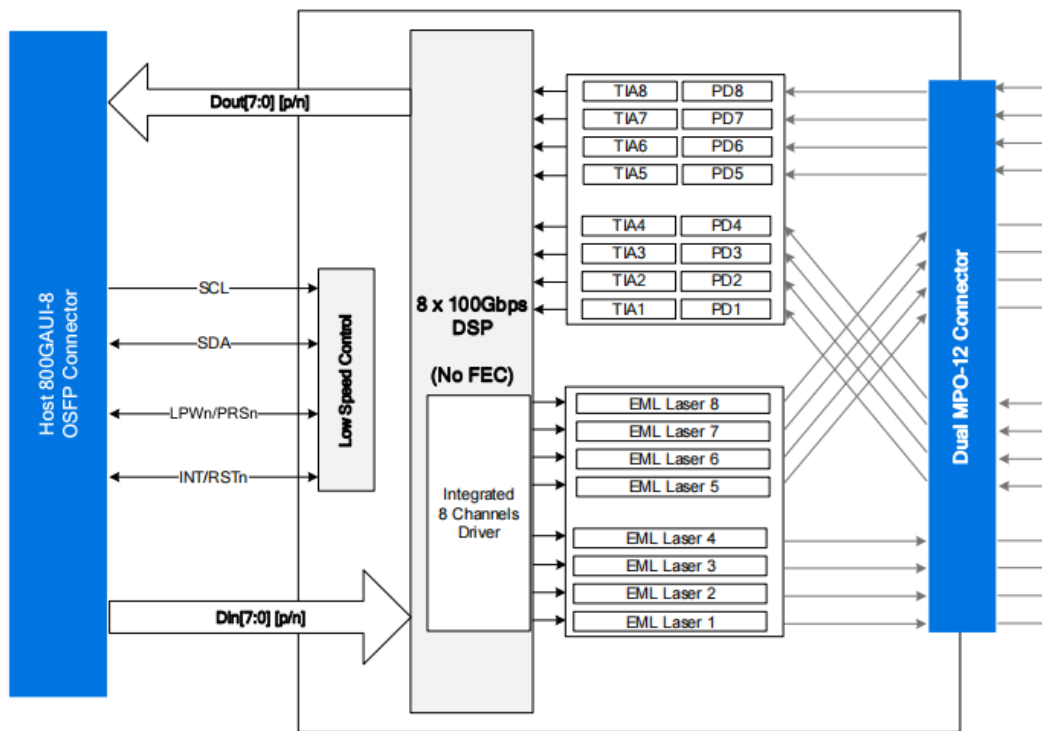
the transmitter path of the transceiver contains an 8x100Gbps 800GAUI-8 electrical input with Equalization (EQ) block, integrated electrical multiplexer, EML laser driver, diagnostic monitors, control and bias for the eight single mode laser source. For module control and interrogation, the control interface (LVTTTL compatible) incorporates a Two Wire Serial (TWS) interface of clock and data signals.





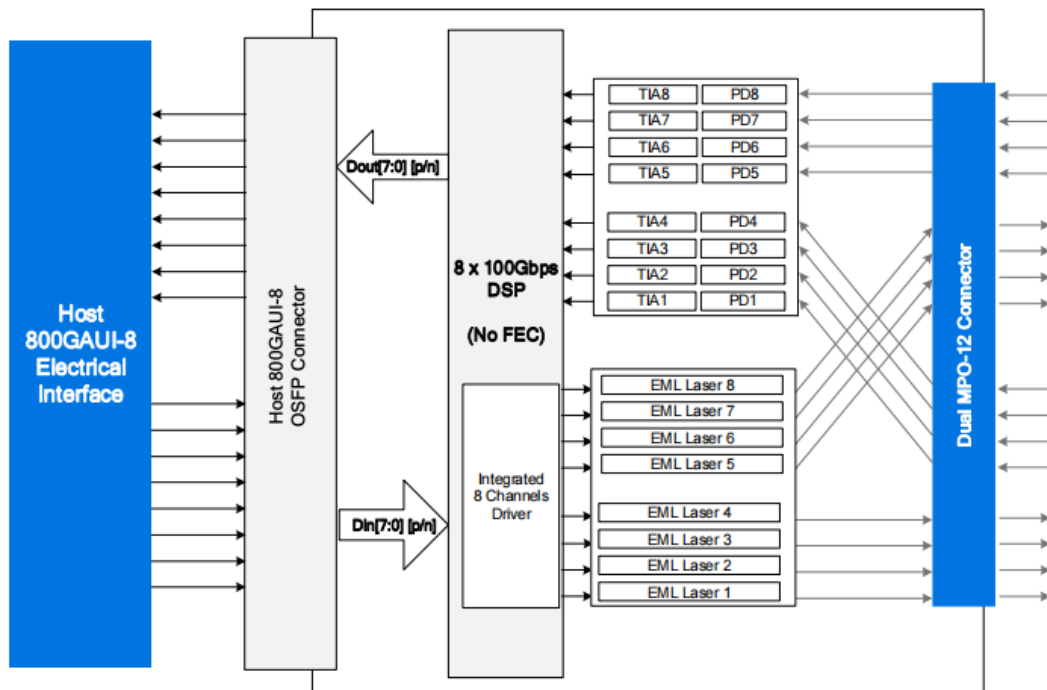
## Receiver

As shown in below figure, the receiver path of the transceiver contains eight PIN photodiodes, trans-impedance amplifiers (TIA), integrated de-multiplexer and 8x100G 800GAUI-8 compliant electrical output blocks. The Rx Output Buffer provides 800GAUI-8 compliant differential outputs for the high speed electrical interface.



## Host Speed Electrical Signal Interface

The interface between OSFP module and ASIC/SerDes is showed in below figure. The high speed signal lines are internally AC-coupled and the electrical inputs are internally terminated to 100 Ohms differential. All transmitter and receiver electrical channels are compliant to module 800GAUI-8 specifications per IEEE 802.3ck.





## **Control Signal Interface**

The control signal interface is compliant with OSFP MSA. The following pin is provided to control module or display the module status: LPWn/PRSn, INT/RSTn. In addition, there is an industry standard two wire serial interface scaled for 3.3V LVTTTL. The definition of control signal interface and the registers of the serial interface memory are defined in the Control Interface & Memory Map section.

## **Handling and Cleaning**

Exposure to current surges and overvoltage events can cause immediate damage to the transceiver module. Observe the precautions for normal operation of electrostatic discharge sensitive equipment; Attention shall also be paid to limiting transceiver module exposure to conditions beyond those specified in the absolute maximum ratings.

Optical connectors include female connectors. These elements will be exposed as long as the cable or port plug is not inserted. At this time, always pay attention to protection.

Each module is equipped with a port guard plug to protect the optical port. The protective plug shall always be in place whenever the optical fiber is not inserted. Before inserting the optical fiber, it is recommended to clean the end of the optical fiber connector to avoid contamination of the module optical port due to dirty connector. If contamination occurs, use standard MPO port cleaning methods.

## Specifications

### Absolute Maximum Ratings

Exceeding the absolute maximum ratings table may cause permanent damage to the device. This is just an emphasized rating, and does not involve the functional operation of the device that exceeds the specifications of this technical specification under these or other conditions. Long-term operation under absolute maximum ratings will affect the reliability of the device.

Parameter	Symbol	Min.	Typ.	Max.	Unit
Storage Temperature	T <sub>s</sub>	-40		+85	°C
3.3 V Power Supply Voltage	V <sub>cc</sub>	-0.5	3.3	3.6	V
Data Input Voltage – Single Ended		-0.5		V <sub>cc</sub> +0.5	V
Data Input Voltage – Differential* <sup>1</sup>				0.8	V
Relative Humidity	RH	5		95	%

#### Notes:

1. This is the maximum voltage that can be applied across the differential inputs without damaging the input circuitry. The damage threshold of the module input shall be at least 1600 mV peak to peak differential.

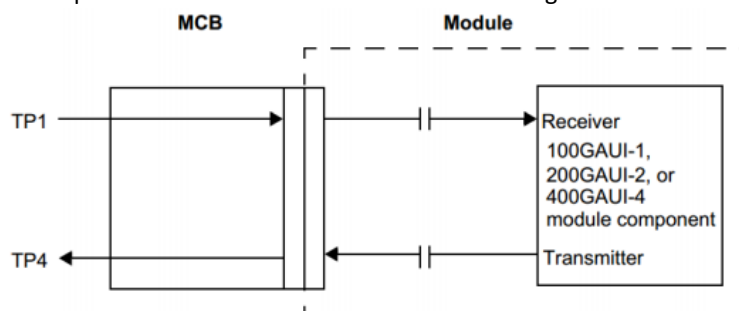
### Recommended Operating Conditions\*<sup>1</sup>

For operations beyond the recommended operating conditions, optical and electrical characteristics are not defined, reliability is not implied, and such operations for a long time may damage the module.

Parameter	Symbol	Min.	Typ.	Max.	Unit
Operating Case Temperature* <sup>2</sup>	T <sub>c</sub>	0		70	°C
Storage Temperature	T <sub>s</sub>	-40		+85	°C
Power Supply Voltage	V <sub>cc</sub>	3.135	3.3	3.465	V
Operating Relative Humidity	RH			65	%
Power Consumption	P <sub>D</sub>			16	W
Electrical Signal Rate per Channel (PAM encoded)* <sup>3</sup>			53.125		GBd
Optical Signal Rate per Channel (PAM encoded)* <sup>4</sup>			53.125		GBd
Power Supply Noise* <sup>5</sup>				66	mVpp
Receiver Differential Data Output Load			100		Ohm
Fiber Length (9um SMF)* <sup>6</sup>				500	m

#### Notes:

1. Power Supply specifications, Instantaneous, sustained and steady state current compliant with OSFP MSA Power Classification.
2. The position of case temperature measurement is shown in below figure



3. 800GAUI-8 operation with Host generated FEC. The transmitter must receive pre-coded FEC signals from the host ASIC.
4. 8×100G DR operation with Host generated FEC. The transmitter must receive pre-coded FEC signals from the host ASIC.
5. Power Supply Noise is defined as the peak-to-peak noise amplitude over the frequency range at the host supply side of the power supply filter with the module and filter in place. Voltage levels including peak-to-peak noise are limited to the recommended operating range of the associated power supply. See figure of power supply filter.
6. 9µm SMF. The maximum link distance is based on an allocation of 3dB of attenuation and 3dB total connection and splice loss. The loss of a single connection shall not exceed 0.5dB.'

## Electrical Characteristics

Unless otherwise stated, the following characteristics are defined under recommended operating conditions.

Parameter	Symbol	Min.	Typ.	Max.	Unit
Transceiver Power Consumption				16	W
Transceiver Power Supply Current, Total				5110	mA
AC coupling capacitors (Internal)			0.1		uF

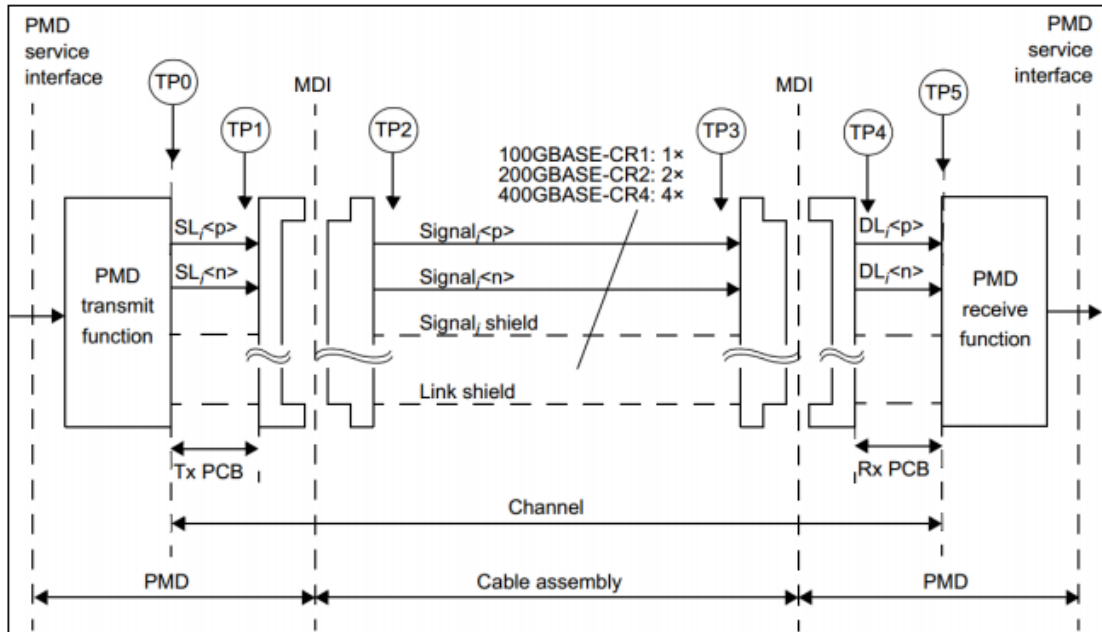
### Notes:

1. For control signal timing including LPWn/PRSn, INT/RSTn, SCL and SDA see Control Interface Section.

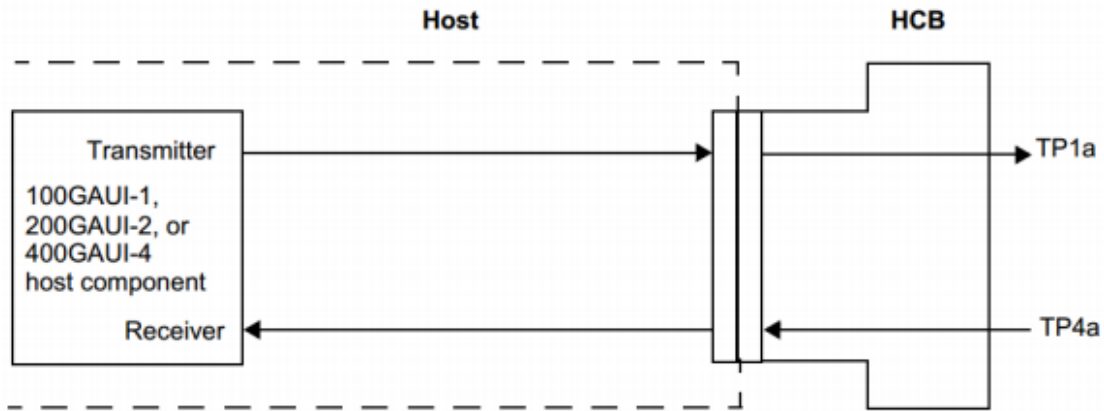
## Reference Points

Symbol	Description
TP0 to TP5	The channel including the transmitter and receiver differential controlled impedance printed circuit board insertion loss and the cable assembly insertion loss.
TP1 to TP4	All cable assembly measurements are made between TP1 and TP4 as illustrated in <b>IEEE 802.3ck 100GBASE-CR1, 200GBASE-CR2 or 400GBASE-CR4 link</b> figure.
TP0 to TP2 TP3 to TP5	A mated connector pair has been included in both the transmitter and receiver specifications defined in 802.3ck 162.9.3 and 162.9.4. The recommended maximum insertion loss from TP0 to TP2 or from TP3 to TP5 including the test fixture is provided in 802.3ck 162.9.3.2
TP2	Unless specified otherwise, all transmitter measurements defined in 802.3ck 162.9.3 are made at TP2 utilizing the test fixture specified in Annex 162B.
TP3	Unless specified otherwise, all receiver measurements and tests defined in 802.3ck 162.9.4 are made at TP3 utilizing the test fixture specified in Annex 162B.

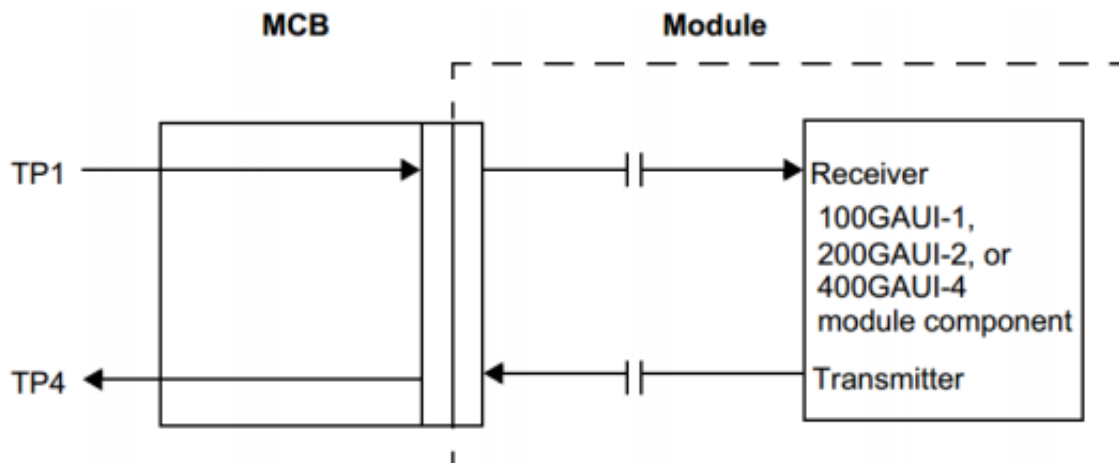
IEEE 802.3ck 100GBASE-CR1, 200GBASE-CR2 or 400GBASE-CR4 link



IEEE 802.3ck 400GAUI-4 compliance points TP1a, TP4a



IEEE 802.3ck 400GAUI-4 compliance points TP1, TP4



## High Speed Electrical Input Characteristics

Unless otherwise stated, the following characteristics are defined under recommended operating conditions.

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Signaling Rate, Per Lane (PAM4 encoded)	TP1		53.125		GBd	+/- 100 ppm
Differential Peak-Peak Input Voltage Tolerance	TP1a	750			mV	
AC Common-Mode RMS Voltage Tolerance	TP1a	25				mV
Differential-Mode to Common-Mode Return Loss	TP1		Equation (120G-2)			dB
Effective Return Loss, ERL	TP1	8.5				dB
Differential Termination Mismatch	TP1			10	%	
Module Stressed Input Tolerance	TP1a		See 120G.3.4.3			802.3ck
Single-Ended Voltage Tolerance Range	TP1a	-0.4		3.3	V	
DC Common-Mode Voltage Tolerance Range	TP1	-350		2850	mV	
<b>Module Stressed Input Tolerance Test</b>						
Pattern Generator Transition Time			9		ps	
Applied Peak-Peak Sinusoidal Jitter			Table 162-16			802.3ck
Eye Height			10		mV	
Vertical Eye Closure, VEC		12		12.5	dB	
Crosstalk Differential Peak-to-Peak Voltage			845		mV	
Crosstalk Transition Time			8.5		ps	

## High Speed Electrical Output Characteristics

The following characteristics are defined over the Recommended Operating Conditions unless otherwise noted.

Parameter	Symbol	Min.	Typ.	Max.	Unit
Signaling Rate, Per Lane (range)	TP4		53.125 <sup>*1</sup> ± 100 ppm		GBd
AC Common-Mode Output Voltage	TP4			25	mV
Differential Peak-to-Peak Input Voltage Short Mode Long mode	TP4				600 845
Eye Height	TP4	15			
Vertical Eye Closure	TP4				12
Effective Return Loss	TP4	8.5			
Common-Mode to Differential-Mode Return Loss	TP4		Equation (120G-1)		dB
Differential Termination Mismatch	TP4			10	%
Transition Time	TP4	8.5			ps
DC Common-Mode Voltage Tolerance	TP4	-0.35		2.85	V

### Notes:

- The signaling rate range is derived from the PMD receiver input.

## Optical Characteristics @TP2

Parameter	Symbol	Min.	Typ.	Max.	Unit
Signaling Speed per Lane			106.25		Gbps
Modulation Format			PAM4		
Center Wavelength	$\lambda$	1304.5	1311	1317.5	nm
Side-Mode Suppression Ratio	SMSR	30			dB
Extinction Ratio	ER	3.5			dB
Average Launch Power*1		-2.9		4	dBm
OMAouter per Lane		-0.8		4.2	dBm
Launch Power in OMAouter-TDECQ		-2.2			dBm
TDECQ (PAM4)				3.4	dB
RIN21.4 OMA				-136	dB/Hz
Average Launch Power of OFF Transmitter				-15	dBm

Parameter	Symbol	Min.	Typ.	Max.	Unit
Optical Return Loss Tolerance				21.4	dB
Transmitter Reflectance				-26	dB

**Notes:**

1. Average launch power, each lane (min) is informative and not the principal indicator of signal strength. A transmitter with launch power below this value cannot be compliant; however, a value above this does not ensure compliance.

**Optical Characteristics @TP3**

Parameter	Symbol	Min.	Typ.	Max.	Unit
Signaling Speed per Lane			106.25		Gbps
Center Wavelength	$\lambda$	1305.5	1311	1317.5	nm
Damage Threshold		5			dBm
Average Receiver Power per Lane		-5.9		4	dBm
Saturation Receive Power (OMAouter) per Lane				4.2	dBm
Unstressed Receiver Sensitivity (OMAouter) per Lane	Sen*1			-4.4	dBm
LOS Assert (Avg.)	LosA	-15			dBm
LOS De-Assert (Avg.)	LosD			-10	dBm
RSSI Accuracy		-2		+2	dB
Receiver Reflectance				-26	dB


**Notes:**

1. Receiver sensitivity (OMAouter), each lane (max) is informative and is defined for a transmitter with TDECQ of 0.9 dB.

**Regulatory Compliance Issues**

Various standard and regulations apply to the OSFP-800G-DR8-05 modules. These include eye-safety, Component Recognition, RoHS, ESD, EMC and Immunity. Please note the transmitter module is a Class 1 laser product. See Regulatory Compliance Table for details.

**Regulatory Compliance Table**

Feature	Test Method	Performance
Laser Eye Safety and Equipment Type Testing 	(IEC) EN 62368-1:2014+A11 (IEC) EN 60825-1:2014 (IEC) EN 60825-2:2004+A1+A2	CDRH Accession Number:2132182-000 TUV File: R 50457725 0001 CB File: JPTUV-100513
Component Recognition	Underwriters Laboratories (UL) and Canadian Standards Association (CSA) Joint Component Recognition for Information Technology Equipment including Electrical Business Equipment	UL File: E317337
RoHS Compliance	RoHS Directive 2011/65/EU&(EU)2015/863	Less than 100 ppm of cadmium. Less than 1000 ppm lead, mercury, hexavalent chromium, poly brominated biphenyls (PPB), poly brominated biphenyl ethers (PBDE), dibutyl phthalate, butyl benzyl phthalate, bis (2-ethylhexyl) phthalate and diisobutyl phthalates.

Feature	Test Method	Performance
Electrostatic Discharge (ESD) to the Electrical Contacts	JEDEC Human Body Model (HBM)	High speed contacts shall withstand 1000V. All other contacts shall withstand 2000 V.
Electrostatic Discharge (ESD) to the Optical Connector Receptacle	IEC 61000-4-2:2008	When installed in a properly grounded housing and chassis the units are subjected to 15kV air discharges during operation and 8kV direct discharges to the case.
Electromagnetic Interference (EMI)	FCC Part 15 Class B; CISPR 32 (EN55032) 2015;	System margins are dependent on customer board and chassis design.
Immunity	IEC 61000-4-3:2010; EN55035:2017	Typically shows no measurable effect from a 10V/m field swept from 80 MHz to 6 GHz applied to the module without a chassis enclosure.

### Electrostatic Discharge (ESD)

The OSFP-800G-DR8-05 is complies with the ESD requirements described in the Regulatory Compliance Table. However, in the normal processing and operation of optical transceiver, the following two types of situations need special attention.

Case I: Before inserting the transceiver into the rack meeting the requirements of OSFP compliant cage, ESD preventive measures must be taken to protect the equipment. For example, the grounding wrist strap, workbench and floor should be used wherever the transceiver is handled.

Case II: After the transceiver is installed, the electrostatic discharge outside the chassis of the host equipment shall be within the scope of system level ESD requirements. If the optical interface of the transceiver is exposed outside the host equipment cabinet, the transceiver may be subject to equipment system level ESD requirements.

### Electromagnetic Interference (EMI)

Communication equipment with optical transceivers is usually regulated by FCC in the United States and CENELEC EN55032 (CISPR 32) in Europe. The compliance of OSFP-800G-DR8-05 with these standards is detailed in the regulatory compliance table. The metal shell and shielding design of OSFP-800G-DR8-05 will help equipment designers minimize the equipment level EMI challenges they face.

### Flammability

OSFP-800G-DR8-05 optical transceiver meets UL certification requirements, its constituent materials have heat and corrosion resistance, and the plastic parts meet UL94V-0 requirements.

## Ordering Information

Product Name	Product Description
OSFP-800G-DR8-05	800GBASE-DR8 OSFP PAM4 1310 nm 500 m DOM Dual MPO-12 Connectors, SMF Optical Transceiver Module



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