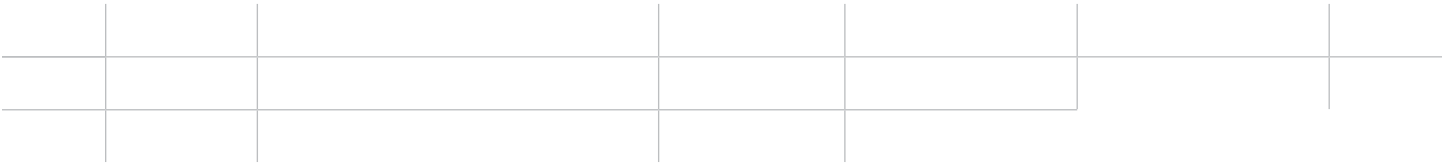




# 400G SR4 RHS Optical Transceiver







PIN	SYMBOL	DESCRIPTION	LOGIC	DIRECTION	PLUG SEQUENCE <sup>2</sup>	NOTES
38	RX6p	NC				3
39	RX6n	NC				3
40	GND	Ground			1	
41	RX8p	NC				3
42	RX8n	NC				3
43	GND	Ground			1	
44	INT/RSTn	Module Interrupt/Module Reset	Multi-Level	Bi-directional	3	
45	VCC	+3.3V Power		Power from Host	2	
46	VCC	+3.3V Power		Power from Host	2	
47	SDA	2-wire Serial interface data	LVC MOS-I/O	Bi-directional	3	1
48	GND	Ground			1	
49	TX7n	NC				3
50	TX7p	NC				3
51	GND	Ground			1	
52	TX5n	NC				3
53	TX5p	NC				3
54	GND	Ground			1	
55	TX3n	TX Inverted	CML-I	Input from Host	3	
56	TX3p	TX Non-Inverted	CML-I	Input from Host	3	
57	GND	Ground			1	
58	TX1n	TX Inverted	CML-I	Input from Host	3	
59	TX1p	TX Non-Inverted	CML-I	Input from Host	3	
60	GND	Ground			1	

(1) Open-Drain with pull up resistor on Host.

### ABSOLUTE MAXIMUM RATINGS

It has to be noted that the operation in excess of any individual absolute maximum ratings might cause permanent damage to this module.

PARAMETER	SYMBOL	MIN	TYPICAL	MAX	UNIT	NOTES
Storage Temperature	$T_s$	-40		85	°C	
Storage Ambient Humidity	$H_A$	0		85	%	
Maximum Supply Voltage	$V_{CC}$	-0.5		3.6	V	

### RECOMMENDED OPERATING CONDITIONS

PARAMETER	SYMBOL	MIN	TYPICAL	MAX	UNIT	NOTES
Operating Case Temperature	$T_{case}$	0	25	70	°C	
Supply Voltage	VCC	3.135	3.3	3.465	V	
Relative Humidity	RH	5		85	%	
Data Rate (Optical)	DRO		4x106.25		Gbps	
Data Rate (Electrical)	DRE		4x106.25		Gbps	

### ELECTRICAL CHARACTERISTICS

(EOL,  $T_{case} = 0 \sim 65^\circ$ ,  $V_{CC} = 3.135 \sim 3.465$  V)

PARAMETER	SYMBOL	MIN	TYPICAL	MAX	UNIT	NOTES
Power Dissipation	$P_d$			9	W	
<b>TRANSMITTER</b>						
Data Rate, each lane	DRE		106.25		Gbps	
Differential Voltage pk-pk	VIN	40		900	mV	
Input differential impedance	ZIN		100		Ohm	
Differential Termination Resistance Mismatch				10	%	
<b>RECEIVER</b>						
Data Rate, each lane	DRE		106.25		Gbps	
Output differential impedance	$Z_{OUT}$		100		Ohm	
Differential Termination Resistance Mismatch				10	%	
Differential output voltage	$V_{OUT}$			1000	mV	



