



Selected Electrical Specifications

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Ambient Temperature	T _A		−40	25	85	°C
Supply Voltage	V _{DD}		1.62	1.80	1.89	V
LVTTTL I/O Supply Voltage	V _{DDIO}		1.62	—	3.63	V
Power Dissipation	P _D	VDD = 1.89 V VDDIO = 3.3 V	—	575	—	mW
Data Rate			9.90	9.95	11.4	Gbps
RXDIN						
Differential Input Swing	V _{ID}	At BER = 1E-12	8	—	1000	mV
Analog LOS Range			10	—	400	mV _{PPD}
Analog LOS Accuracy			1	—	—	
Consecutive Identical Digit Detection (CID) Range			0.5	—	100	uS
Consecutive Identical Digit Detection (CID) Accuracy			0.5	—	—	uS
Jitter Tolerance (OC-192 at BER = 1E-12)	J _{TOL(PP)}	F = 2.0 KHz	1.5	3.0	—	UI _{PP}
		F = 20 KHz	1.5	3.0	—	UI _{PP}
		F = 400 KHz	1.5	3.0	—	UI _{PP}
		F = 4 MHz	0.4	—	—	UI _{PP}
		F = 400 MHz	0.55	—	—	UI _{PP}
TXDOUT						
Random RMS Jitter Generation	J _{GEN(RMS)}	With PRBS31 at 50 kHz–80 MHz	—	2.5	—	mUI _{RMS}
Total Peak-to-Peak Jitter Generation	J _{GEN(PP)}	With PRBS31 at 50 kHz–80 MHz	—	20	—	mUI _{PP}
Jitter Transfer Bandwidth (Programmable)	J _{BM}		200	—	1.2 M	Hz
Input Reference Clock Frequency	RC _{FREQ}	Data Rate/16 or Data Rate/64	622 or 155	—	712.5 or 178.125	MHz

Package Information

