

D.C.
JBHGC

Power Consumption Test for PI3EQX6741ST at 6Gb/s

Test Condition	Voltage (Unit: V)	Current (Unit: mA)	Power Consumption (Unit: mW)
Active (no Pre-em of CH A&B)	3.30	77.20	254.76
Active (w/ Pre-emphasis of CH A)	3.30	86.30	284.79
Active (w/ Pre-emphasis of CH B)	3.30	86.40	285.12
Active (w/ Pre-emphasis of CH A&B)	3.30	95.60	315.48
HDD Unplugged (w/o HDD, Tdet_EN=High)	3.30	1.03	3.40
Slumber mode (w/o HDD or Host, Tdet_EN=low)	3.30	11.30	37.29
Standby Mode (EN=Low)	3.30	0.02	0.07

Power consumption spec in PI3EQX6741ST DATASHEET

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Units
VDD	Power Supply Voltage		3.0		3.6	V
PSTANDBY	Supply Power, Standby	EN = 0		0.5	3.6	mW
PUNPLUG	Supply Power, HDD unplugged	No HDD attached		10	18	
PSLUMBER	Supply Power, Slumber			45	50	
PACTIVE	Supply Power, Active	EN = 1 DIFFP-P ≥ V _{TH-SD}			342	mA
IDD-STANDBY	Supply Current Standby	EN = 0			1	
IDD-UNPLUG	Supply Current, HDD unplugged	No HDD attached			5	
IDD-SLUMBER	Supply Current Slumber				14	
IDD-ACTIVE	Supply Current Active	EN = 1, input = 600mVppd, X_EM = 0			95	