



第43讲

HDMI显示器驱动设计与验证



公众号

淘宝店铺

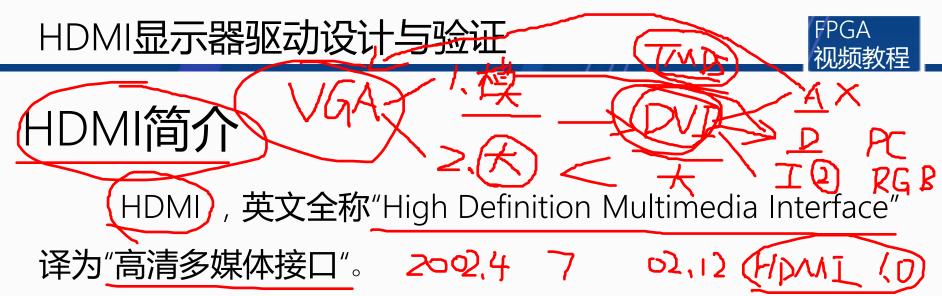


主讲内容

理论学习 实战演练









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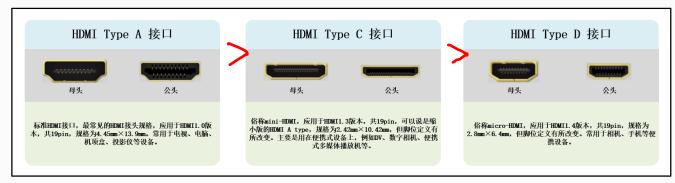


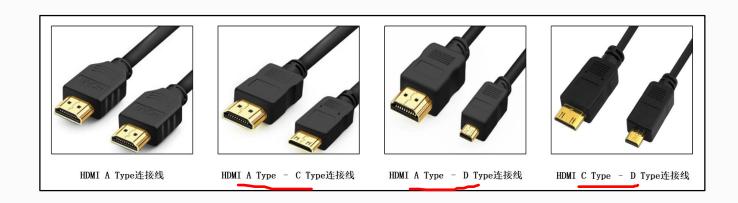
HDMI接口







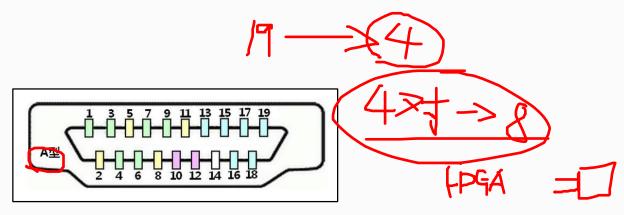






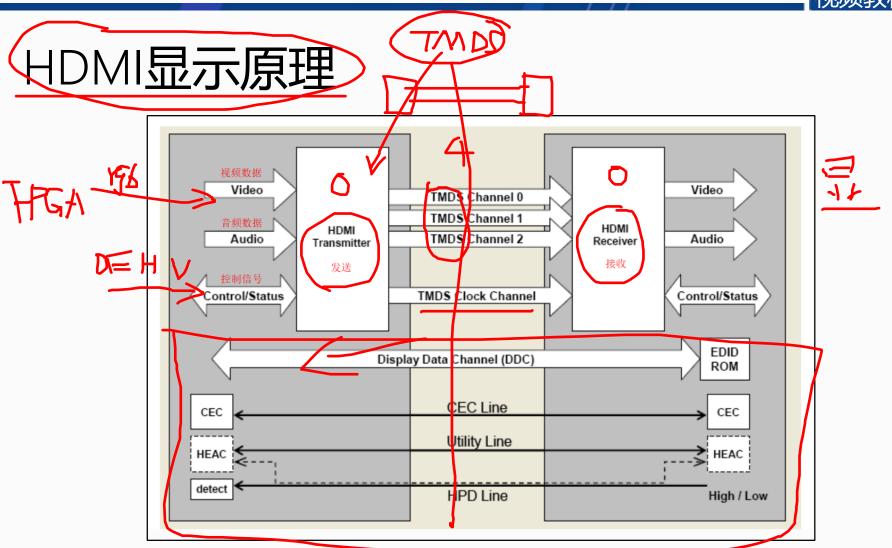
HDMI引脚

2.DDC I2C 3. CEC 4.



	引脚	定义	引脚	定义
	$\sim \overline{0}$	数据2+ (TMDS Data2+)	11	时钟屏蔽 (TMDS Clock Shield)
	2	数据2屏蔽 (TMDS Data2 Shield)	(3	时钟- (TMDS Clock–)
	-0	数据2- (TMDS Data2-)	13	CEC
	4	数据1+ (TMDS Data1+)	14	保留
<	5	数据1屏蔽 (TMDS Data1 Shield)	15	DDC时钟线(SCL)
	•	数据1- (TMDS Data1-)	16	DDC数据线(SDA)
		数据0+ (TMDS Data0+)	17	DDC/CEC地 (DDC/CEC GND)
<	8	数据0屏蔽 (TMDS Data0 Shield)	18	+5V电源 (Power)
	9	数据0- (TMDS Data0-)	19	热插拔检测 (Hot Plug Detect)
	0	时钟+ (TMDS Clock+)		



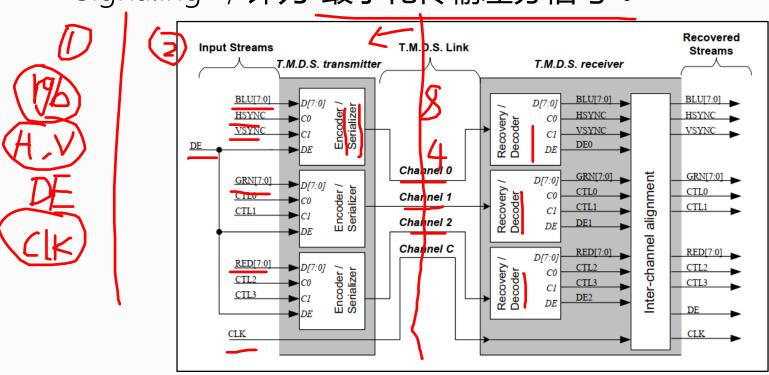




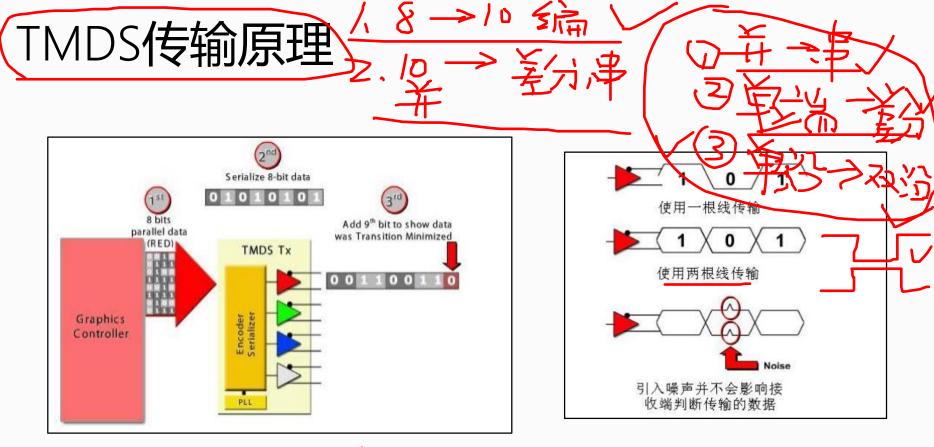
TMDS传输原理

TMDS , 英文全称"Transition Minimized Differential

Signaling",译为"最小化传输差分信号"。







(DDR)=zzei数版收收



实战演练

FPGA



720P 25M /ox ->) 7X

000 4 [2]



谢谢



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