

S3AN01B

XILINX Spartan 3AN

FPGA School Board

1.00 Updated from S3AN01A

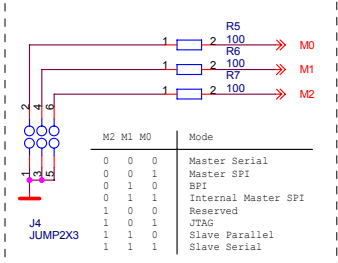
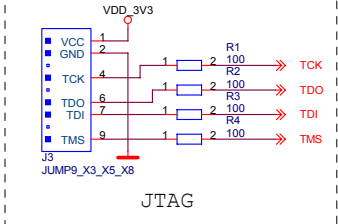
Nezapomente, ze obvody rady Spartan 3A
nejmaji vstupy odolne vuci napeti 5V.

Vsimnete si prosim, ze obvody rady
Spartan 3A nemaji ochrannou diodu mezi
vstupem a jakymkoli kladnym napajecim
napetim.

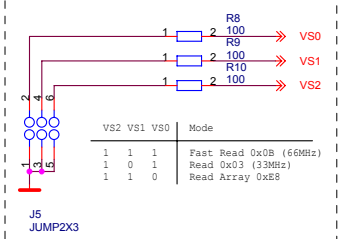
Do not forget that Spartan 3A device is not
5V tollerant!

Please notice that Spartan 3A device does
not have diodes from any I/O pin to VCCO
or any other power rail.

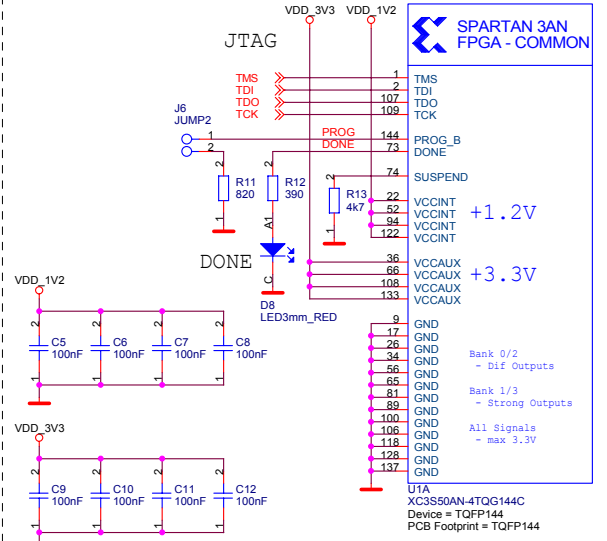
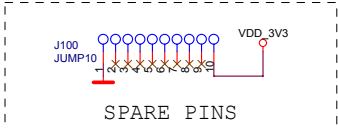
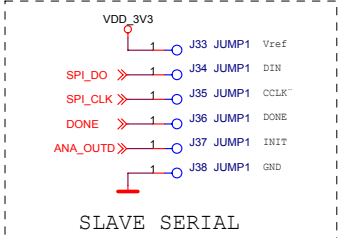
Firma		Author	
MLAB		MIHO	
Size	Project Name	Schematic Name	Rev
A3	MLAB	S3AN01B	1.00
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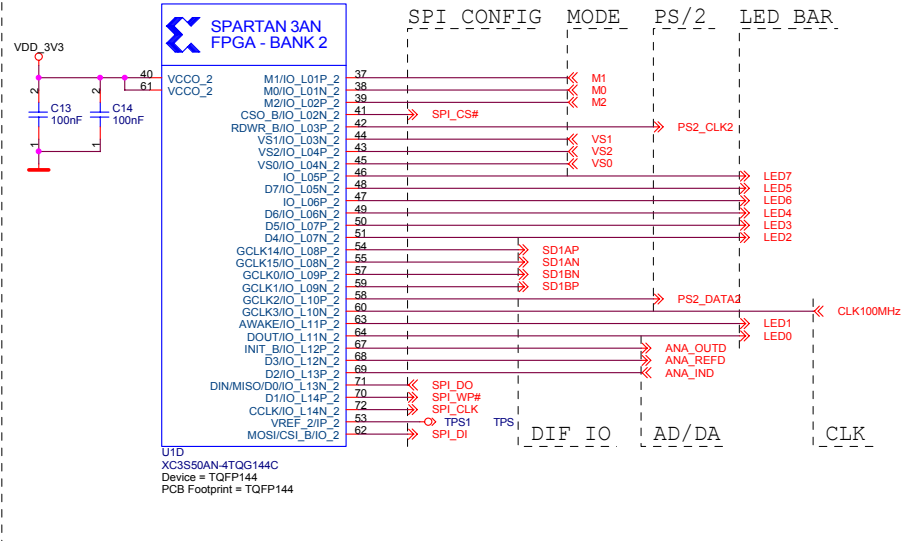
CONFIGURATION MODE
Mode pins have internal pull-up



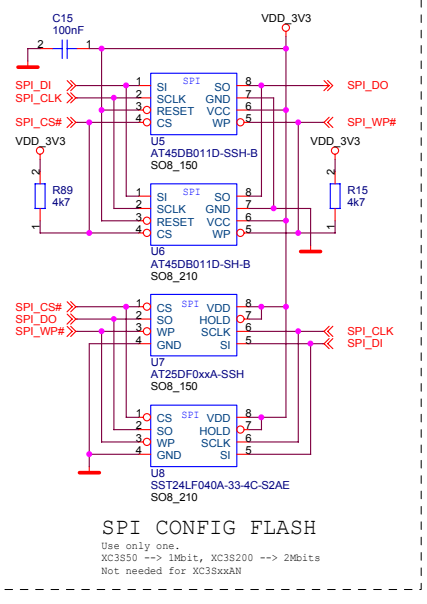
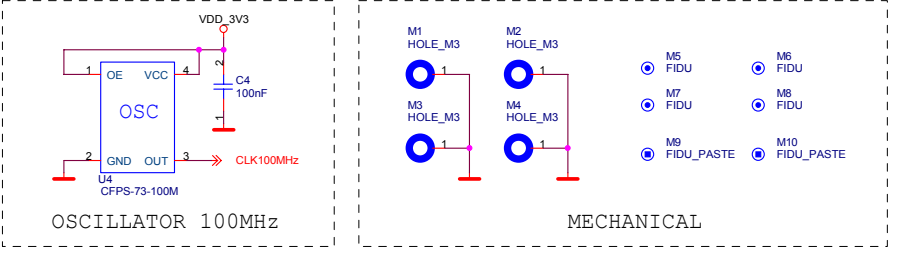
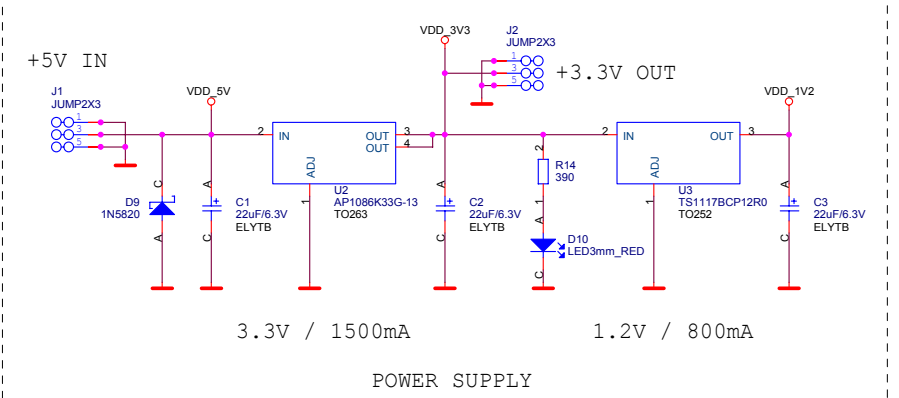
SPI VARIANT SELECT
Mode pins have internal pull-up



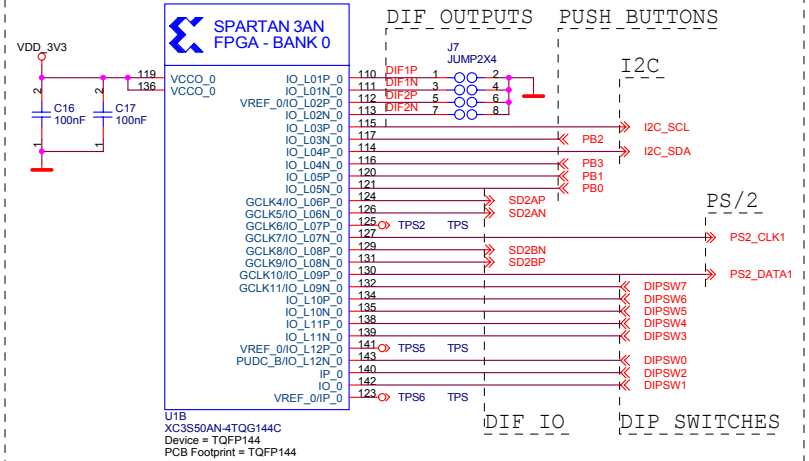
CONFIG and POWER



BANK2 and CONFIG

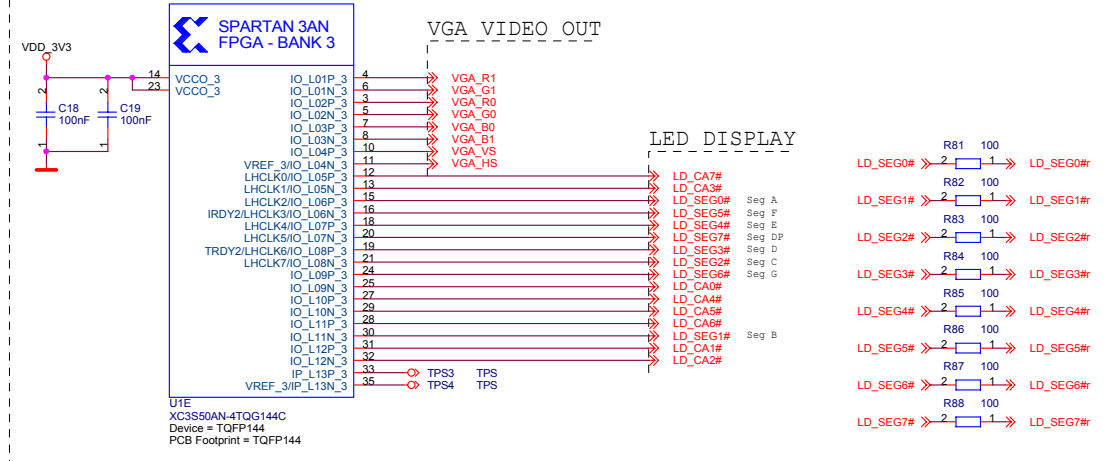


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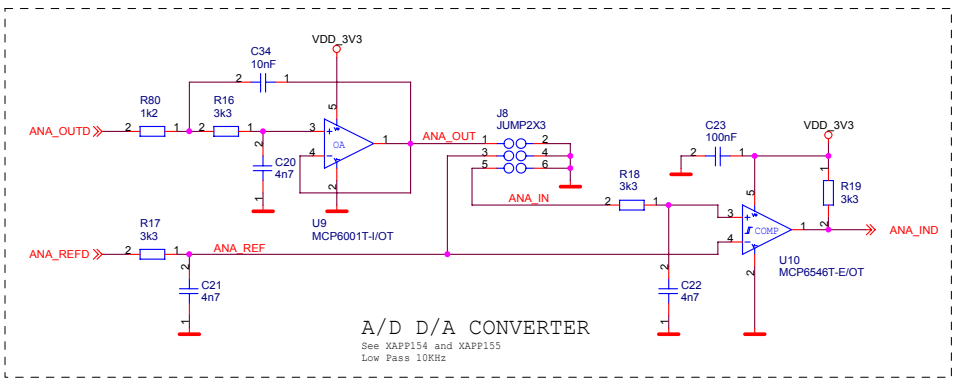
U1B
XC3S50AN-4TQG144C
Device = TQFP144
PCB Footprint = TQFP144

BANK 0



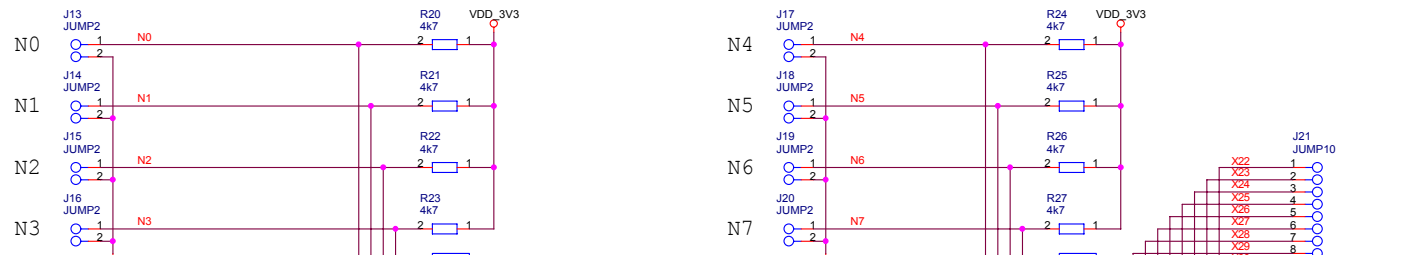
U1E
XC3S50AN-4TQG144C
Device = TQFP144
PCB Footprint = TQFP144

BANK 3

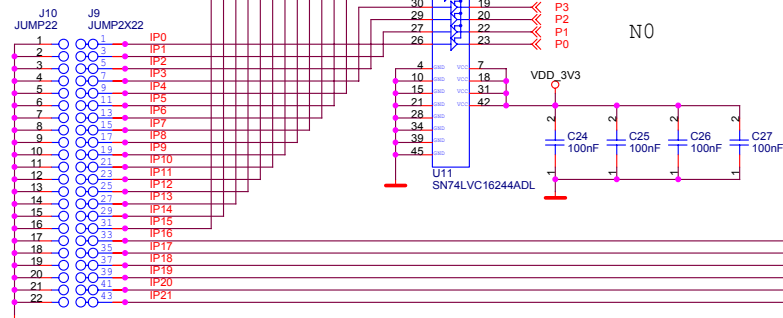


A/D D/A CONVERTER
See XAPP154 and XAPP155
Low Pass 10KHz

Firma MLAB		Author MIHO	
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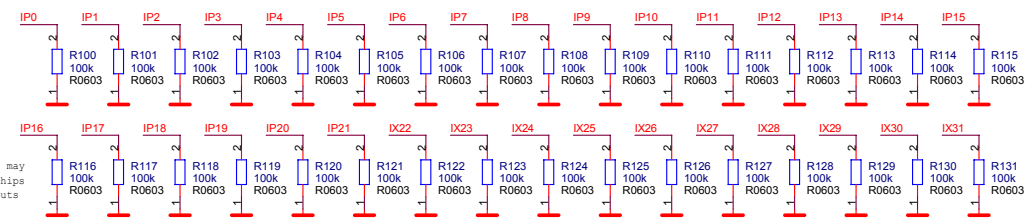
NIBBLE
ENABLE



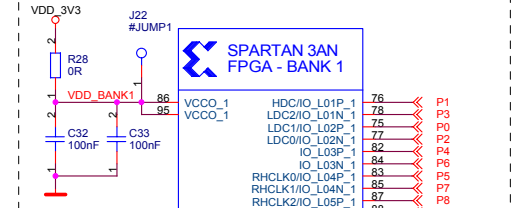
5V TOLERANT INPUTS (BANK 1)



5V TOLERANT INPUTS



5V TOLERANT INPUTS for BANK 1



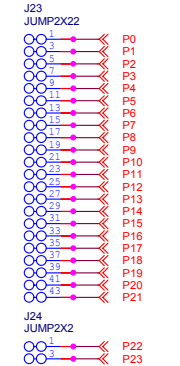
SPARTAN 3AN
FPGA - BANK 1

If VCCO for this bank requires other than 3.3V do not populate R28 and use J22 as power connector.

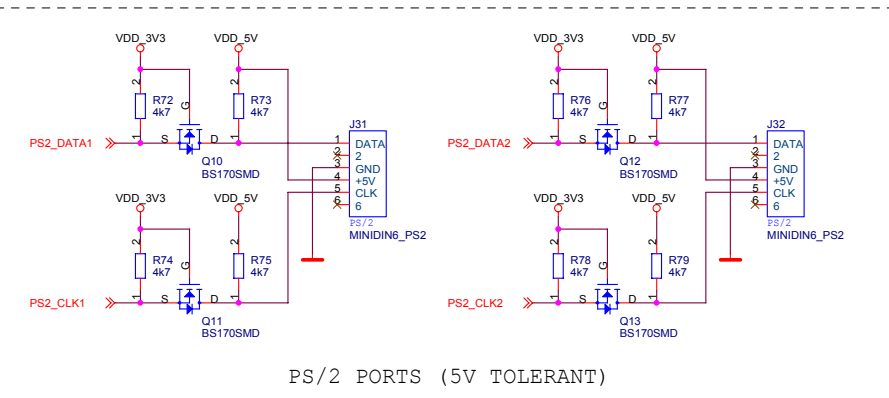
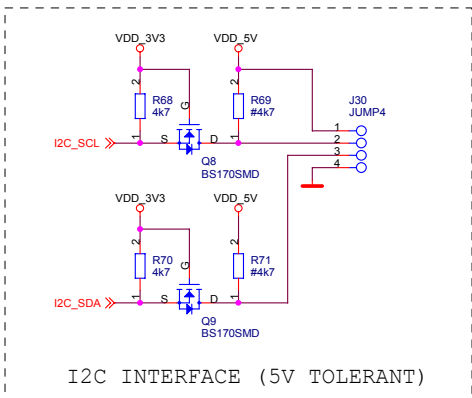
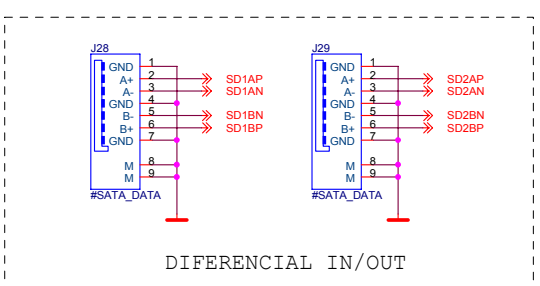
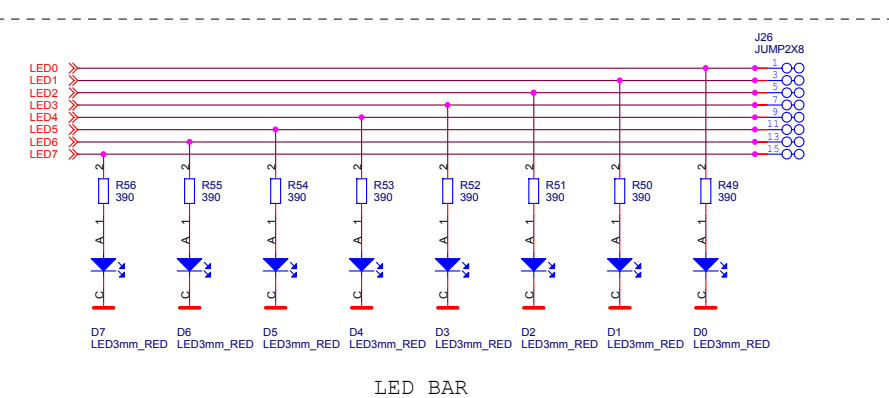
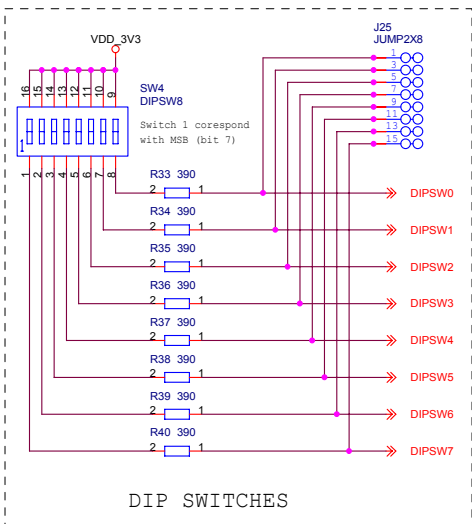
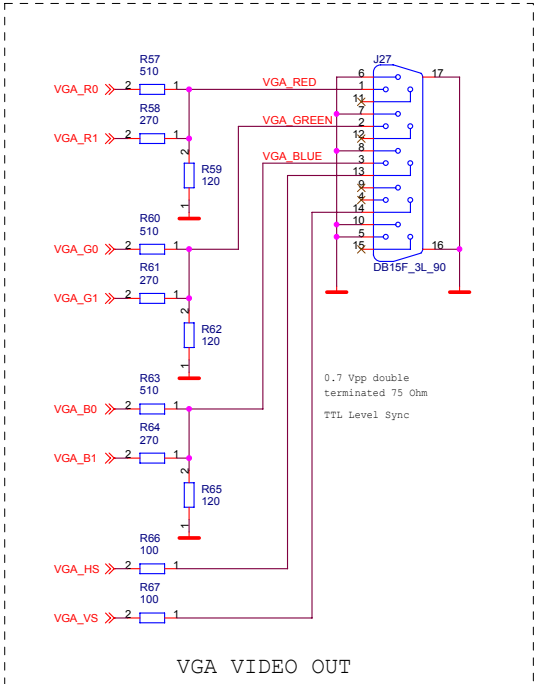
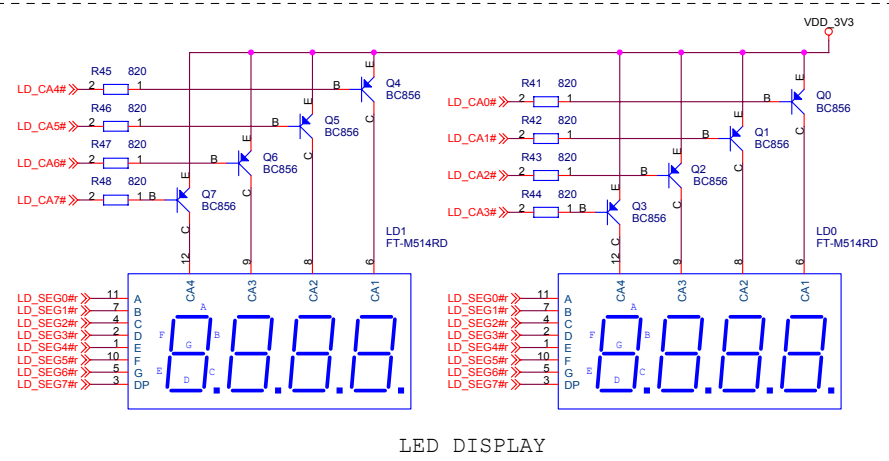
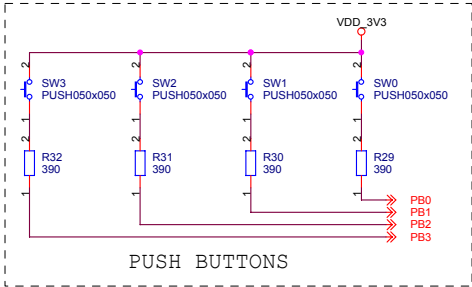
VCCO_1	HDC/IO_L01P_1	76	P1
VCCO_1	LDC2/IO_L01N_1	78	P3
	LDC1/IO_L02P_1	77	P0
	LDC0/IO_L02N_1	82	P2
	IO_L03P_1	81	P4
	IO_L03N_1	84	P6
	RHCLK0/IO_L04P_1	83	P5
	RHCLK1/IO_L04N_1	85	P7
	RHCLK2/IO_L05P_1	87	P8
TRDY1/RHCLK3/IO_L05N_1	RHCLK4/IO_L06P_1	88	P9
	RHCLK5/IO_L06N_1	90	P10
IRDY1/RHCLK6/IO_L07P_1	RHCLK7/IO_L07N_1	92	P12
	IO_L08P_1	91	P11
	IO_L08N_1	93	P13
	IO_L09P_1	96	P14
	IO_L09N_1	98	P15
	IO_L10P_1	99	P16
	IO_L10N_1	101	P17
	IO_L11P_1	102	P18
	IO_L11N_1	104	P20
	IO_1	103	P19
	IO_2	105	P21
VREF_1/IP_1	IO_3	79	P22
VREF_1/IP_1	IO_4	80	P23

U1C
XC3S50AN-4TQG144C
Device = TQFP144
PCB Footprint = TQFP144

BANK 1



Firma		Author	
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