Design Challenge

Use ADC over I2C to CPLD to drive LED's

CoolRunner II CPLD can drive 8mA per pin as per app note:

https://www.xilinx.com/support/documentation/application_notes/xapp805.pdf

Extended Price	Unit Price	Backorder Quantity	Available Quantity	Customer Reference	Description	Part Number	Image	Quantity	ndex
\$0.8	0.87000	0	1 Immediate		ULTRA-LOW POWER,MEMS OSCILLATOR,	DSC6111CI1A- 016.0000-ND	-	1	⊠ 1
\$1.4	1.40000	0	1 Immediate		IC CPLD 32MC 5.5NS 32QFN	<u>122-1412-ND</u>	~ >	1	× 2
\$0.1	0.12000	0	1 Immediate		IC REG LDO 3.3V 0.15A SC70-5	576-3193-1-ND		1	X 3
\$0.1	0.12000	0	1 Immediate		IC REG LDO 1.8V 0.15A SC70-5	<u>576-3181-1-ND</u>		1	⊠ 4
\$1.1	1.10000	0	1 Immediate		IC ADC 10BIT 2.7V 1CH SOT23-5	MCP3021A5T-E/OTCT-ND		1	⊻ 5
\$2.5	0.16200	0	16 Immediate		MINI-MOLD CHIP LED (IVRANK REDUC	SML-D12U1WT86CT-ND	\$	16	₿ 6
\$0.1	0.01100	0	16 Immediate		RES SMD 1K OHM 5% 1/10W 0603	311-1.0KGRCT-ND		16	¥ 7
\$1.2	1.26000	1 Lead Time	0 Immediate		POT 10K OHM 1/20W CARBON LINEAR	PTV112-4420A-B103-ND		1	× 8
\$7.6 Estimat unknow	Subtotal Shipping Total								



