

NTAG_I2C_Explorer_Rev_2.0_CW1533

Arrangement: Gregor Vrhovnik (18.8.2015)

Component	Label	Value	Manufacturer	Footprint	Ref Des	Quantity
IC – uP	LPC11U24FHN33		NXP	HVQFN-32	IC1	1
IC – REG LDO	MIC5225-3.3YM5	3.3V / 150mA	Micrel	SOT-23-5	IC2	1
IC – VREF	REF3020AIDBZ	Vout=2.048V	Texas Instruments	SOT-23	IC3	1
IC – temp. sensor	PCT2075DP		NXP	TSSOP8	TEMP	1
quartz crystal	CX5032GB12000H0PESZZ	12MHz	AVX	2-SMD	X1	1
connector – Micro USB	10104111-0001LF		FCI	SMD	USB	1
pinheader – JTAG	20021521-00010T1LF	2x5 PIN (M)	FCI	SMD (R=1,27mm)	SWD	1
switch	1437634 KSR211GLFS		C&K Components	SMD	ISP, RESET	2
switch	B3FS-1050		Omron Electronics	SMD	BLUE, ORANGE, GREEN	3
diode - Schottky	1PS76SB10	30V / 200mA	NXP	SOD-323	D1	1
LED – RGB	CLVBA-FKA-CC1F1L1BB7R3R3		Cree Inc.	4-PLCC	LED	1
LCD	NHD-C0216CIZ-FSW-FBW-3V3		Newhaven Display	THT	LCD	1
transistor – PNP	PDTA114TT	PNP	NXP	SOT-23	Q1	1
square CAP	B32-1020	ORANGE	Omron Electronics	THT	SCAP1	1
square CAP	B32-1040	BLUE	Omron Electronics	THT	SCAP2	1
square CAP	B32-1050	GREEN	Omron Electronics	THT	SCAP3	1
resistor		0R		RESC0603	R19	1
resistor		24R9		RESC0603	R16	1
resistor		33R 1%		RESC0603	R1, R2, R13	3
resistor		1k		RESC0603	R11	1
resistor		1k2		RESC0603	R5	1
resistor		1k5 1%		RESC0603	R10	1
resistor		2k		RESC0603	R4	1
resistor		6k8		RESC0603	R3, R6, R7	3
resistor		10k		RESC0603	R17	1
resistor		47k		RESC0603	R8, R9	2
capacitor		20pF		CAPC0603	C3, C4	2
capacitor		10nF		CAPC0603	C5, C6, C12	3

capacitor		100nF		CAPC0603	C8	1
capacitor		1uF		CAPC0805	C1, C2, C7, C9	4
connector socket	1x6pin (F); right angle: 90; R=2.54mm			THT	J2	1
clear rubber feet	B001JAW454 or similar			6.35mm x 2mm	one for each corner	4
Do Not Place (DNP):						
diode – Schottky	1PS76SB10 DNP	30V / 200mA	NXP	SOD-323	D2	1
connector pinheader	1x2pin (M); R=2.54mm DNP		Neltron	THT	J3	1
resistor	DNP			RESC0603	R12, R14, R15, R18	4
capacitor	DNP			RESC1206	C10	1