

Locolno In/Out SMD 1.5

Ref Name	Qty	Component	Value	Package	Manufacturer	Farnell	Reichelt	Other Part Number	Description
FTDI 5P	1	1x2_Bruecke		1x02-oct			SL 1X40G 2,54		2 way Pin Header
T1	1	2N2222	BC846	SOT23-3			BC 846B SMD		NPN TRANSISTOR
T2	1	BC856	BC856	SOT23			BC 856B SMD		PNP TRANSISTOR
IC4	1	78XXT_M2	78M05	D-PAK_2			(L78M05CDT STM) LP 2950 CDT-5.0	LD29150DT50R (STM)	VOLTAGE REGULATOR, 0,5A LDO VOLTAGE REGULATOR 100 mA LDO VOLTAGE REGULATOR 1,5A
J1	1	520250-3		520250-3	Molex 95501-2661	1536490		Econ Connect MEB6/6PL Voelkner Y726811	RJ12 Connector 6/6P
U1	1	ATmega328-TQFP		SMD	Atmel		ATMEGA 328P-AU		8-bit AVR Microcontroller 8Kb Prog Flash
C8	1	Capacitor	15p	0603			KEM C0G0603 15P		Capacitor
C2 ,C4, C5, C6, C7, C9	6	Capacitor	100n	0603			X7R-G0603 100N		Capacitor
C3	1	Capacitor	22µ	0603					Capacitor
C1, C10	2	Capacitor	22µ/25V	1210			GRM31CC81E226K		Capacitor
D1, D2	2	DIODE_SMD	MBR0530T1G	SOD123			MBR0530T1G		Diode
F1	1	FUSE PTC SMD	PTC/400mA PTC/100mA	'1210			LITT 1210L020WR LITT MICROSMO010		
S17	1	KMR2		SMD		1437636	KMR231 G LFS	KMR231 Voelkner S679772	OMRON SWITCH, optional, nur für Debugging und Arduino-Programmierung über UART
LED1	1	LED3MM	LED3MM	3mm			LED EL 3-3200GR 3034G3C-DSB-A		LED3 mm, round
LED2	1	LED3MM	LED3MM	3mm			LED EL 3-2000RT 3034R1C-DSB-C		LED3 mm, round
IC2	1	LM311		SO8			LM 311 D STM		COMPARATOR
FTDI	1	PINHD-1X6-90		1x6-90			SL 1X40W 2,54		PIN HEADER, optional für Debugging und Arduino-Programmierung über UART
R1, R2	2	Resistor SMD small	33R	0603			WAL WR06X33R0FTL		
R4	1	Resistor SMD small	47K	0603			WAL WR06X4702FTL		
R5	1	Resistor SMD small	150K	0603			WAL WR06X1503FTL		
R6	2	Resistor SMD small	220K	0603			WAL WR06X2203FTL		
R7,R13	1	Resistor SMD small	4K7	0603			WAL WR06X4701FTL		
R8	1	Resistor SMD small	22k	0603			WAL WR06X2202FTL		
R9, R12	2	Resistor SMD small	10k	0603			WAL WR06X1002FTL		
R10	1	Resistor SMD small	10k (zu LED1)	0603			WAL WR06X1002FTL		abhängig von Strahlungsstärke
R11	1	Resistor SMD small	2k2 (zu LED2)	0603			WAL WR06X1001FTL		abhängig von Strahlungsstärke
X1	1	Resonator, 16,0 MHz,		CSTNE_V			CSTCE 16,0	CSTNE16M0V53C000R0	Resonator, 16,0 MHz,
RN1, RN2	2	SIL 9-8	8x 10k	SIL 9-8			SIL 9-8 10K		Resistor Network, optional
J2	1	ML6	AVR ISP6	ML6			WSL 6G		Wannenstecker, 6polig
	1	Case					SP 2090 SW		
Bestückungsoption Keypad									
S1..S16	16	10-XX		B3F-10XX			TASTER 3301B		OMRON SWITCH
Bestückungsoption Output									
R15 ... R29	16	Resistor SMD small	470R	0603					Strombegrenzung 10mA, kann angepasst werden
PL1 ... PL18	18	2pol-RM3-5					AKL 059-02		Anschlussklemme, 2-pol, Ø 1,5 mm, RM 3,5
Alternativ zu PL1 ... 16 können auch LEDs bestückt werden. Dazu müssen R15 ... R29 auf die Leuchtstärke angepasst werden									
As an alternative to PL1 ... 16, LEDs can also be fitted. To do this, R15 ... R29 must be adjusted to the light intensity.									
	1	PCB			© Sim&IT			LocoIO-A Ver 1.5	SMD-Version des LocoIO-Arduino (SVLocoIO)