



- Component list (reichelt)
- C1 100nF X7R-G0805 100N
 - C2 100nF X7R-G0805 100N
 - C3 100nF X7R-G0805 100N
 - C4 100nF X7R-G0805 100N
 - C5 100nF X7R-G0805 100N
 - C6 22pF NPO-G0805 22P
 - C7 22pF NPO-G0805 22P
 - C8 470uF/10V NHG-A 470U 10
 - C9 1uF KEM X5R0805 1.0U
 - D1 1N4148 1N 4148 SMD
 - D2 1N4148 1N 4148 SMD
 - IC2 6N137 6N137S EVL
 - IC3 LM393 LM 393 D SMD
 - J1-J3 Header 2-pol. MPE 087-1-002
 - L1 Heartbeat EVL 17-21/R6C-A (rot)
 - L2 LocoNet Act. EVL 17-21SYGC (orange)
 - L3 LED EVL 17-21UYC/S5 (gelb)
 - L4 Sim EVL 17-21T1D-C (weiß)
 - L5 Imp EVL 17-21/BHC-A (blau)
 - L6 WS2812 5050 WH AliExpress - 32623583544
 - L7 WS2812 5050 WH AliExpress - 32623583544
 - Q1 16MHz 16,0000-HC49-SMD
 - R1 10K SMD-0805 10,0K
 - R2 470 SMD-0805 470
 - R3 1K SMD-0805 1,00K
 - R4 27K SMD-0805 27,0K
 - R5 39K SMD-0805 39,0K
 - R6 150K SMD-0805 150K
 - R7 4K7 SMD-0805 4,70K
 - R8 220K SMD-0805 220K
 - R9 47K SMD-0805 47,0K
 - R10 470 SMD-0805 470
 - R11 820 SMD-0805 820
 - R12 1K SMD-0805 1,00K
 - R13 47 SMD-0805 47,0
 - R15 75 RND 1550805 AT
 - R16 75 RND 1550805 AT
 - R17 470 SMD-0805 470
 - R18 1K SMD-0805 1,00K
 - R19 1K SMD-0805 1,00K
 - R20 N/A
 - R21 10K SMD-0805 10,0K
 - T1 BC817 BC 817-16 SMD
 - S1 Switch AliExpress - 1005001265569844 (weiß)
 - S2 Switch AliExpress - 1005001265569844 (weiß)
 - S3 Switch AliExpress - 1005001265569844 (weiß)
 - S4 Switch AliExpress - 1005001265569844 (rot)

Modifications:
01-02-2023: IC2 package change from SO-8 to SOP-8 (SMD DIL size)

J1: Place jumper only if L6 and L7 are NOT installed
(R15, R16, C14 and C5 are therefore unnecessary)
J2: When this jumper is installed, nothing may be connected to the Neopixel Bus
Could be used for test purposes, it connects Out L6 with in L7

Table	
Day / Night Sensor	
LDR R14* (C9* N/A)	
5506	1%, 0.25W, 4K7 (Metal)
5516	1%, 0.25W, 8K2 (Metal)
5526	1%, 0.25W, 15K (Metal)
5528	1%, 0.25W, 15K (Metal)
5537	1%, 0.25W, 33K (Metal)

Modifications		Date	Name	Description	Page no.
Date	Name	1.0	14-01-2023	Tmaa	MobaLedLib UNO Shield
		1.1	01-02-2023	Tmaa	
https://www.stummiforum.de				Schematic no.	1
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