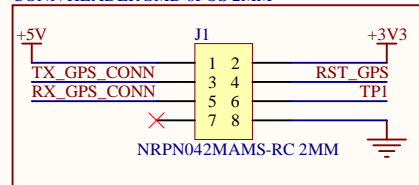
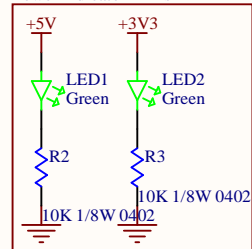


	1	2	3	4
A	<div>Table of Contents</div> <div>1. NEO-M9N Module</div>			
B				
C				
D				
	1	2	3	4

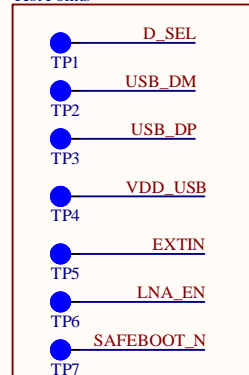
CONN HEADER SMD 8POS 2MM



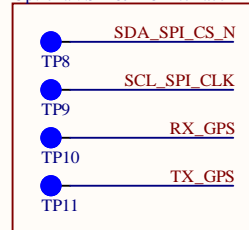
Power Indicator LEDs



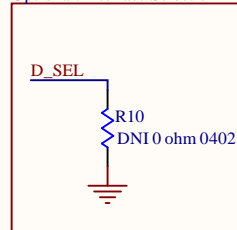
Test Points



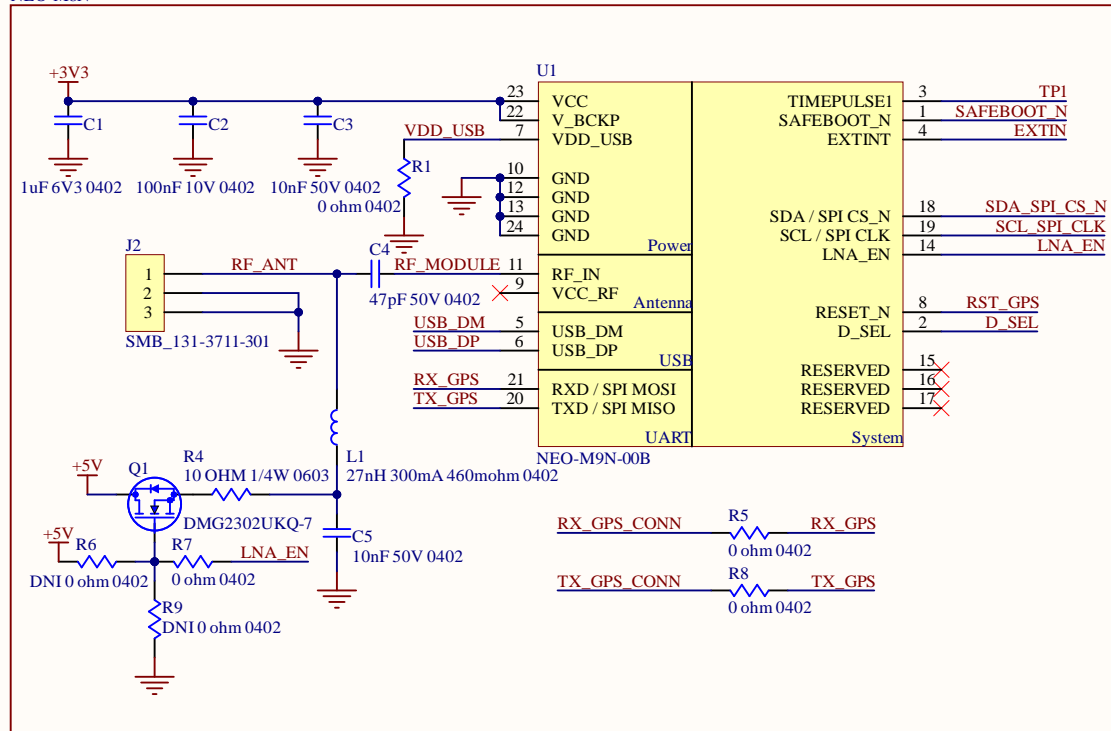
Optional: SPI & I2C Interface



Optional: Interface Selection



NEO-M8N



Default Interface Selection (left open):

PIN 20: UART TX
PIN 21: UART RX
PIN 19: DDC SCL
PIN 18: DDC SDA

IF D_SEL pulled LOW:

PIN 20: SPI MISO
PIN 21: SPI MOSI
PIN 19: SPI CLK
PIN 18: SPI CS_N

LNA_EN

HIGH = ACTIVE ANTENNA ON
LOW = ACTIVE ANTENNA OFF

Designator	Fitted	Quantity	Manufacturer	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Footprint	Description	Comment
C4	Fitted	1	Yageo	CC0402JRNPO9BN470	Digi-Key	311-1021-1-ND	c0402	0402 47 pF 50 V ±5 % Tolerance NP0 SMT Multilayer Ceramic Capacitor	47pF 50V 0402
R1, R5, R7, R8	Fitted	4	Yageo	RC0402JR-070RL	Digi-Key	311-0.0JRCT-ND	r0402	RES SMD 0 OHM JUMPER 1/16W 0402	0 ohm 0402
R4	Fitted	1	Yageo	SR0603FR-7T10RL	Digi-Key	YAG5824CT-ND	r0603	Res Surge Chip Thick Film 0603 10 Ohm 1% 1/4W ±200ppm/°C Molded Paper T/R	10 OHM 1/4W 0603
R6, R9, R10	Not Fitted	0	Yageo	RC0402JR-070RL	Digi-Key	311-0.0JRCT-ND	r0402	RES SMD 0 OHM JUMPER 1/16W 0402	DNI 0 ohm 0402
LED1, LED2	Fitted	2	Vishay Lite-On	LTST-C190KGKT	Digi-Key	160-1435-1-ND	led0603	LED High-Power Uni-Color Green 574nm 2-Pin Chip LED T/R	Green
U1	Fitted	1	u-blox	NEO-M9N-00B	Digi-Key	672-NEO-M9N-00BCT-ND	IC_NEO-M9N	GNSS module, Flash, TCXO, SAW, LNA, LCC, 12x16 mm Professional Grade	NEO-M9N-00B
R2, R3	Fitted	2	TE Connectivity	CRGP0402F10K	Digi-Key	A130367CT-ND	r0402	Res Thick Film 0402 10K Ohm 1% 0.125W(1/8W) ±100ppm/°C Pad SMD T/R	10K 1/8W 0402
J1	Fitted	1	Sullins	NRPN042MAMS-RC	Digi-Key	S6009-04-ND	CONN_NRPN042MAMS-RC	Dual Row 8 Position 2 mm Pitch Surface Mount Header	NRPN042MAMS-RC 2MM
C2	Fitted	1	Samsung	CL05B104KP5NNNC	Digi-Key	1276-1002-1-ND	c0402	CL05 Series 0.1 uF 10 V ±10 % Tolerance X7R SMT Multilayer Ceramic Capacitor	100nF 10V 0402
C1	Fitted	1	Murata	GRM155R70J105KA12J	Digi-Key	490-13339-1-ND	c0402	0402 1 uF 6.3 V ±10% Tolerance X7R Multilayer Ceramic Capacitor	1uF 6V3 0402
C3, C5	Fitted	2	Murata	GCM155R71H103KA55D	Digi-Key	490-4762-1-ND	c0402	CAP CER 10000PF 50V X7R 0402	10nF 50V 0402
L1	Fitted	1	Murata	LQG15HS27NJ02D	Digi-Key	490-2628-1-ND	L0402	Inductor RF Chip Multi-Layer 27nH 5% 100MHz 8Q-Factor Air 300mA 460mOhm DCR 0402 Paper T/R	27nH 300mA 460mohm 0402
Q1	Fitted	1	Diodes	DMG2302UKQ-7	Digi-Key	31-DMG2302UKQ-7CT-ND	SOT23	N-Channel 20 V 2.8A (Ta) 660mW (Ta) Surface Mount SOT-23-3	DMG2302UKQ-7
J2	Fitted	1	Bel Cinch	131-3711-301	Digi-Key	J10507-ND	CONN_131-3711-301	Rf Coaxial Board Mount Connector	SMB_131-3711-301