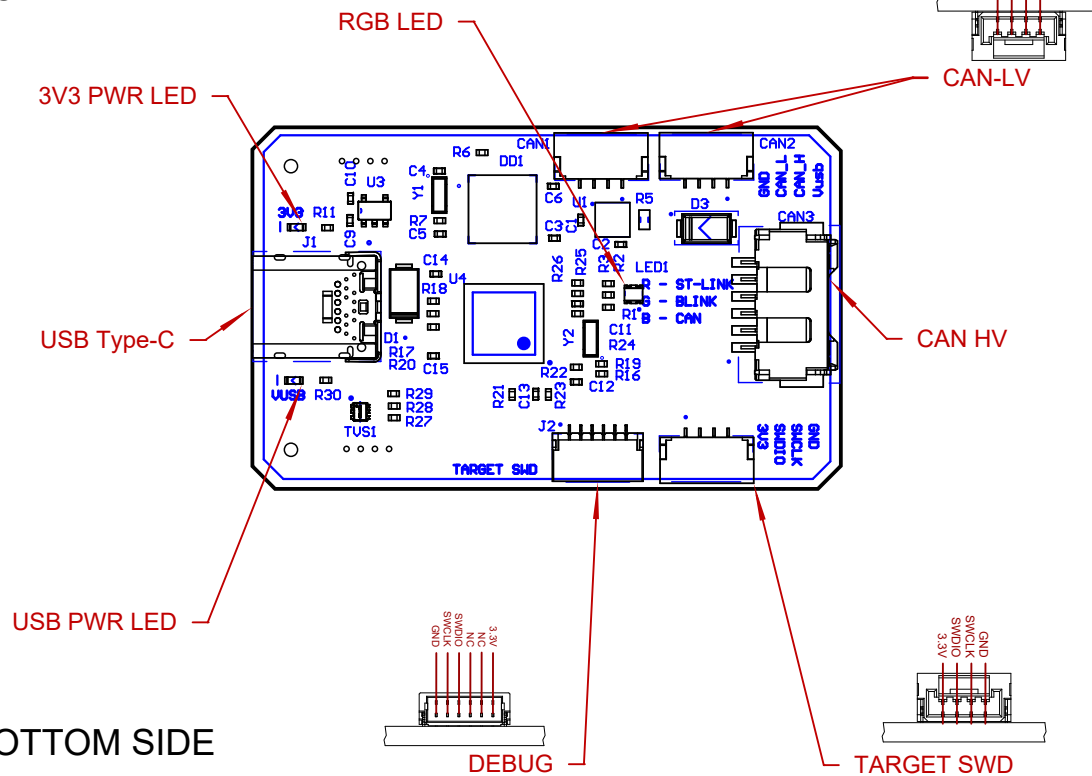


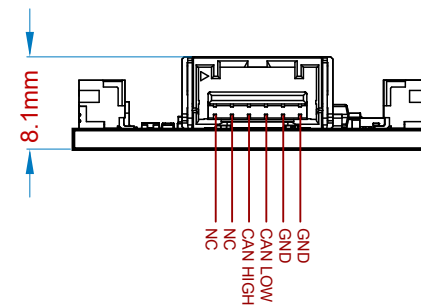
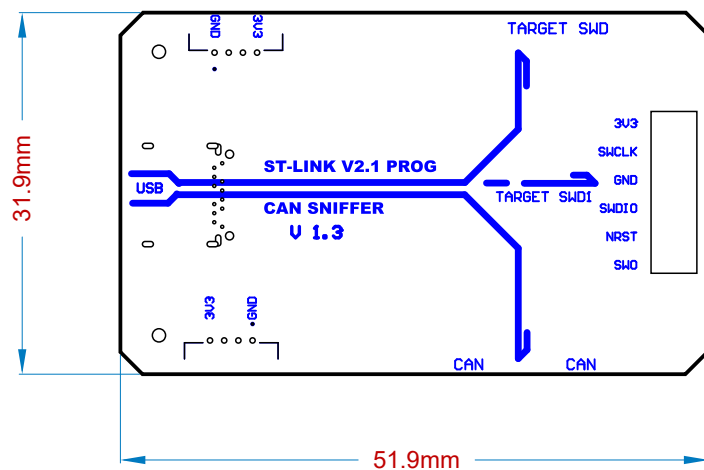




## TOP SIDE



## BOTTOM SIDE



1. Max input voltage 5.3 V
2. CAN LV pinout:  
5V  
CAN H  
CAN L  
GND
3. SWD pinout:  
GND  
SWCLK  
SWDIO  
3V3

Designator	Quantity	MF	MP	Value	Package	Description	Instructions	Type	HelpURL	ChipDip_Link	Name
3V3	1		LTST-C194KFKT	RED	0603 Lite-On	Red 620nm LED Indication Discrete 2.2V 0603 (1608 Metric)		SMD			0603-LED- RED
C1, C2, C3, C4, C5, C6, C9, C10, C11, C12, C13, C14, C15	13	Murata	GCM155R71H104KE02D	0.1u	0402	GCM155R71H1 04KE02D, Чип 0402 X/R 0.1uF +10%, 50V, Конденса тор		SMD		<a href="https://www.chipdip.ru/product/gcm155r71h104ke02d-murata">https://www.chipdip.ru/product/gcm155r71h104ke02d-murata</a>	GCM155R71 H104KE02D
CAN1, CAN2, TARGET SWD	3	JST Sales	SM04B-GHS-TB(LF)(SN)		None	Connector Header Surface Mount, Right Angle 4 position 0.049 1.25mm		SMD	<a href="http://www.farnell.com/datasheets/2082975.pdf">http://www.farnell.com/datasheets/2082975.pdf</a>	<a href="https://www.chipdip.ru/product/sm04b-ghs-tb-lf-sn-gh-1.25mm-header-side-ent">https://www.chipdip.ru/product/sm04b-ghs-tb-lf-sn-gh-1.25mm-header-side-ent</a>	SM04B-GHS- TB(LF)(SN)-
CAN3	1	Molex	502585-0670		None	1.50mm Pitch, CLK-Mate PCB Receptacle, Single Row, Surface Mount, Right- Angle, 11in Plating, Positive Lock, 6Circuits, Natural		SMD			502585-0670
D1		Taiwan Semiconductor	SMAJ5.0		DO-214AC-2 Taiwan Semiconductor	400W, 6.9V, 10%, Unidirectional TVS		SMD			SMAJ5.0
D3	1		SS16		SMA-2	Diode Schottky 60V 1A Surface Mount SMA	DNP	SMD		<a href="https://www.chipdip.ru/product/ss16">https://www.chipdip.ru/product/ss16</a>	SS16
DD1	1	STM	STM32F103T8U6		VFQFPN-36	STM32F103T8U 6, Микроконтро ллер 32BIT ARM 64K FLASH [VFQFPN-36]		SMD	<a href="http://www.st.com/stonline/products/literature/ds135287.pdf">http://www.st.com/stonline/products/literature/ds135287.pdf</a>	<a href="https://www.chipdip.ru/product/stm32f103t8u6">https://www.chipdip.ru/product/stm32f103t8u6</a>	STM32F103T 8
J1	1	CUI Devices	UI31-CH-31N-SMT-TR		None	Type C, USB 3.1 Gen 2, 5A, Right Angle, Surface Mount _SMT_, USB Receptacle		SMT	<a href="https://www.chipdip.ru/product/11/8002862225">https://www.chipdip.ru/product/11/8002862225</a>	<a href="https://www.chipdip.ru/product/11/8002862225">https://www.chipdip.ru/product/11/8002862225</a>	UI31-CH- 31N-SMT-TR
J2	1	JST Sales	SM04B-SR5S-TB_LF__SN__		None	Connector Header Surface Mount, Right Angle 6 position 0.039 1.00mm		SMD			SM04B-SR5S- TB(LF)(SN)
LED1	1		LTST-C19HE1WT			Blue/Green/R ed		SMD	<a href="https://static.chipdip.ru/lib/039/D/OC0130396611/8003387462.pdf">https://static.chipdip.ru/lib/039/D/OC0130396611/8003387462.pdf</a>	<a href="https://www.chipdip.ru/product/11/8003387462">https://www.chipdip.ru/product/11/8003387462</a>	LTST- C19HE1WT
R1, R2, R3	3	Yageo or NXP	RC0402FR-07330RL	330	RC0402	0.0628r 0402 330 Ом, 1%, Чип резистор (SMD)		SMD	<a href="https://www.chipdip.ru/product/10/9000189640">https://www.chipdip.ru/product/10/9000189640</a>	<a href="https://www.chipdip.ru/product/10/9000189640">https://www.chipdip.ru/product/10/9000189640</a>	RC0402FR- 07330RL
R5	1	Yageo or NXP	RC0603FR-07120RL	120	RC0603	120 Ohms 1.0 1 W 1 10 W Chip Resistor 0403 1608 Metric Thick Film		SMD	<a href="https://www.chipdip.ru/product/10/9000079618">https://www.chipdip.ru/product/10/9000079618</a>	<a href="https://www.chipdip.ru/product/10/9000079618">https://www.chipdip.ru/product/10/9000079618</a>	RC0603FR- 07120RL
R6, R7, R21, R22, R23, R24, R25, R26	8	Yageo or NXP	RC0402FR-0710KL	10k	RC0402	0.0628r 0402 10 кОм, 1%, Чип резистор (SMD)		SMD	<a href="https://www.chipdip.ru/product/10/9000189640">https://www.chipdip.ru/product/10/9000189640</a>	<a href="https://www.chipdip.ru/product/10/9000189640">https://www.chipdip.ru/product/10/9000189640</a>	RC0402FR- 0710KL
R11, R30	2	Yageo or NXP	RC0402FR-071KL	1k	RC0402	0.0628r 0402 1 кОм, 1%, Чип резистор (SMD)		SMD	<a href="https://www.chipdip.ru/product/10/9000189640">https://www.chipdip.ru/product/10/9000189640</a>	<a href="https://www.chipdip.ru/product/10/9000189640">https://www.chipdip.ru/product/10/9000189640</a>	RC0402FR- 071KL
R16, R17, R19, R20, R27, R28	6	Yageo or NXP	RC0402FR-0722RL	22	RC0402	0.0628r 0402 22 Ом, 1%, Чип резистор (SMD)		SMD	<a href="https://www.chipdip.ru/product/10/9000189640">https://www.chipdip.ru/product/10/9000189640</a>	<a href="https://www.chipdip.ru/product/10/9000189640">https://www.chipdip.ru/product/10/9000189640</a>	RC0402FR- 0722RL
R18	1	Yageo or NXP	RC0402FR-07120RL	120	RC0402	0.0628r 0402 120 Ом, 1%, Чип резистор (SMD)		SMD	<a href="https://www.chipdip.ru/product/10/9000189640">https://www.chipdip.ru/product/10/9000189640</a>	<a href="https://www.chipdip.ru/product/10/9000189640">https://www.chipdip.ru/product/10/9000189640</a>	RC0402FR- 07120RL
R29	1	Yageo or NXP	RC0402FR-071K6L	1.6k	RC0402	0.0628r 0402 1.6 кОм, 1%, Чип резистор (SMD)		SMD	<a href="https://www.chipdip.ru/product/10/9000189640">https://www.chipdip.ru/product/10/9000189640</a>	<a href="https://www.chipdip.ru/product/10/9000189640">https://www.chipdip.ru/product/10/9000189640</a>	RC0402FR- 071K6L
SWD1, SWD2	2	JST Sales	SM04B-GHS-TB(LF)(SN)		None	Conn Shrouded Header HDR 4 POS 1.25mm Solder ST SMD Reel	DNP	SMD			SM04B-GHS- TB(LF)(SN)-
TARGET SWD1	1		PLS-6			PLS-6 (DS1021- 1x6), Вилка штыревая 2.54мм 1x6 прямая тип 1	DNP	SMD		<a href="https://www.chipdip.ru/product/pls-6">https://www.chipdip.ru/product/pls-6</a>	PLS-6
TVS1	1	STM	USBLC6-ZP6		SOT-666	17V Clamp 5A (8/20us) 1pp Tvs Diode Surface Mount SOT-666		SMD	<a href="https://static.chipdip.ru/lib/093/D/OC001093117.pdf">https://static.chipdip.ru/lib/093/D/OC001093117.pdf</a>	<a href="https://www.chipdip.ru/product/usblc6-zp6-2">https://www.chipdip.ru/product/usblc6-zp6-2</a>	USBLC6-ZP6
U1	1	NXP USA	TJA1042TK/3		VDFN-8 NXP USA	1/1 Transceiver Half CANbus 8- SO		SMD	<a href="https://static.chipdip.ru/lib/883/D/OC001583059.pdf">https://static.chipdip.ru/lib/883/D/OC001583059.pdf</a>	<a href="https://www.chipdip.ru/product/11/8002840332">https://www.chipdip.ru/product/11/8002840332</a>	TJA1042TK/3
U3	1	MaxLinear, Inc.	SPX3819MS-L-3/TR	3V3	SOT-23-5 Exar	Low Dropout Voltage Regulator, Adjustable 0.5A, 84%, 2.5 to 16Vin, 5- Pin SOT-23		SMD	<a href="http://www.farnell.com/datasheets/2614478.pdf">http://www.farnell.com/datasheets/2614478.pdf</a>	<a href="https://www.chipdip.ru/product/11/8003455237">https://www.chipdip.ru/product/11/8003455237</a>	SPX3819MS- L-3/TR
U4	1	STM	STM32F103CBT6		LQFP-48	ARM® Cortex®- M3 STM32F1 Microcontrolle r IC 32-Bit 72MHz 128KB (128K x 8) FLASH	STM32F103CBT6 - should be B letter not 8	SMD	<a href="https://static.chipdip.ru/lib/235/D/OC000235733.pdf">https://static.chipdip.ru/lib/235/D/OC000235733.pdf</a>	<a href="https://www.chipdip.ru/product/11/8001783721">https://www.chipdip.ru/product/11/8001783721</a>	STM32F103C BT6
VUSB	1		LTST-C194KFKT		ORANGE	Orange 605nm LED Indication Discrete 2.2V 0603 (1608 Metric)		SMD			0603-LED- ORANGE
V1, V2	2	Murata	CSTCE8M00G55-R0		SMD-3 Murata	Ceramic Resonator 8MHz ±70.5% _Tol_ ±70.2% _Stability_ ± 33pp 400nm 3 Pin CSMD T/R		SMD	<a href="https://www.murata.com/en-eu/api/pdf/download?gate=6&amp;srno=CSTCE8M00G55-R0">https://www.murata.com/en-eu/api/pdf/download?gate=6&amp;srno=CSTCE8M00G55-R0</a>	<a href="https://www.chipdip.ru/product/11/8001783721">https://www.chipdip.ru/product/11/8001783721</a>	CSTCE8M00 G55-R0