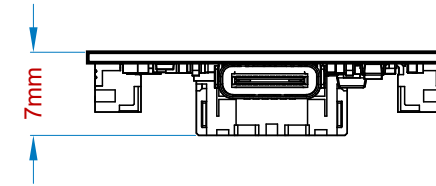
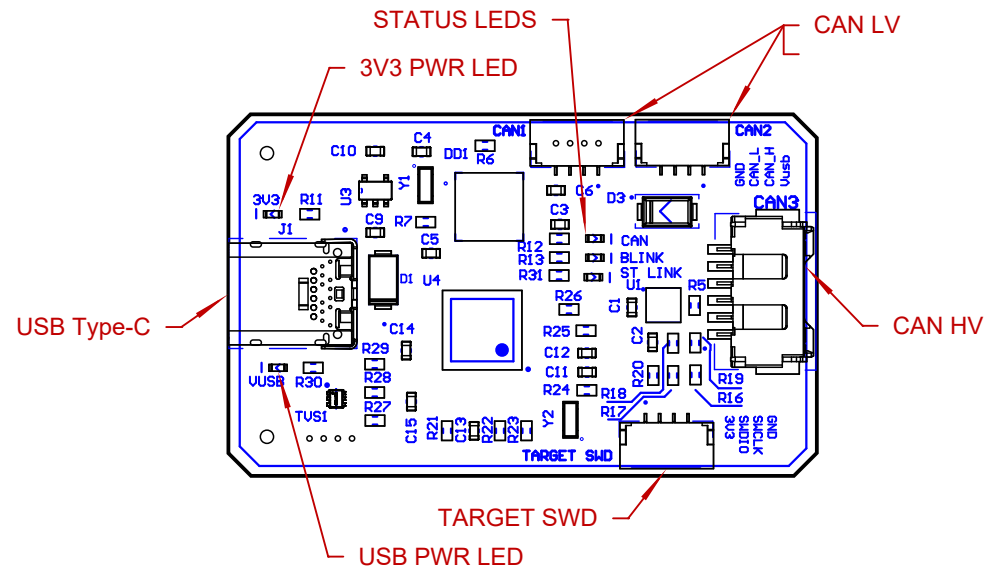
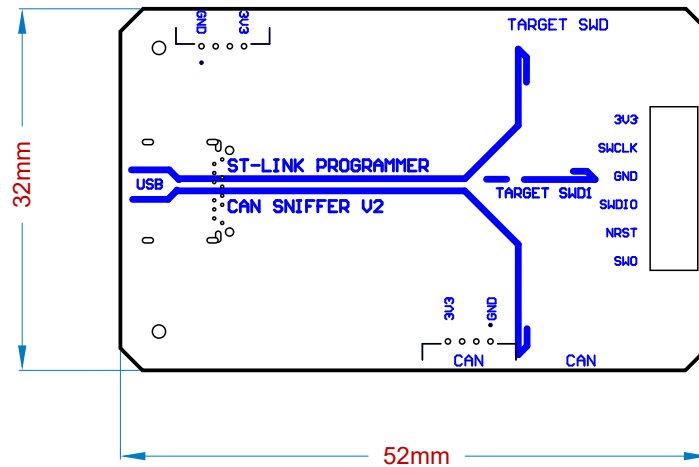




## TOP SIDE



## 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-C194KRT	RED	0603 Lite-On	Red 620nm LED Indication- Discrete 2.2V 0603 (1608 Metric)		SMD			0603-LED-RED
BLINK	1		LTST-C191KGKT	GREEN	0603 Lite-On	Green 571nm LED Indication- Discrete 2V 0603 (1608 Metric)		SMD			0603-LED-GREEN
C1, C2, C3, C4, C5, C6, C9, C10, C11, C12, C13, C14, C15	13	AVX	CL10B104JB8NNNC	0.1u	0603 AVX	Cap Thin Film 0.1uF 50V 0603		SMD			GX035C104 MAT2-500
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			<a href="http://www.farnell.com/datasheets/2062975.pdf">http://www.farnell.com/datasheets/2062975.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, Tin Plating, Positive Lock, 6 Circuits, Natural		SMD			502585-0670
CAN, ST LINK	2		LTST-S270TBKT	BLUE	0603 Lite-On	LED IR LED Chip LED 2-Pin SMD T/R		SMD			0603-LED-BLUE
D1	1	Taiwan Semiconductor	SMAJ5.0		DO-214AC-2 Taiwan Semiconductor	400W, 6.9V, 10%, Unidirectional TVS					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		VFOFPN-36	STM32F103T8U6, Микроконтроллер 32BIT ARM 64K FLASH (VFOFPN-36)		SMD	<a href="http://www.st.com/online/product/infocds/infocds/135287.pdf">http://www.st.com/online/product/infocds/infocds/135287.pdf</a>	<a href="https://www.chipdip.ru/product/stm32f103t8u6">https://www.chipdip.ru/product/stm32f103t8u6</a>	STM32F103T8
J1	1	CUI Devices	UI31-CH-31N-SMT-TR		None	Type C, USB 3.1 Gen 2, 5 A, Right Angle, Surface Mount _SMT_ USB Receptacle		SMT	<a href="https://www.chipdip.ru/product/ui31-ch-31n-smt-tr">https://www.chipdip.ru/product/ui31-ch-31n-smt-tr</a>	<a href="https://www.chipdip.ru/product/ui31-ch-31n-smt-tr">https://www.chipdip.ru/product/ui31-ch-31n-smt-tr</a>	UI31-CH-31N-SMT-TR
R5	1	Yageo or NXP	RC0603FR-07120RL	120	R0603	120 Ohms 1/10 W 1/10 W Chip Resistor 0603 (1608 Metric) Thick Film		SMD	<a href="https://www.chipdip.ru/product/rc0603fr-07120rl">https://www.chipdip.ru/product/rc0603fr-07120rl</a>	<a href="https://www.chipdip.ru/product/rc0603fr-07120rl">https://www.chipdip.ru/product/rc0603fr-07120rl</a>	RC0603FR-07120RL
R6, R7, R21, R22, R23, R24, R25, R26	8	Yageo or NXP	10K 1% 0603	10k	R0603	10k Ohms ±1% 0.1W 1/10 W Chip Resistor 0603 (1608 Metric) Thick Film		SMD	<a href="https://www.chipdip.ru/product/rc0603fr-0710kl">https://www.chipdip.ru/product/rc0603fr-0710kl</a>	<a href="https://www.chipdip.ru/product/rc0603fr-0710kl">https://www.chipdip.ru/product/rc0603fr-0710kl</a>	RC0603FR-0710KL
R11, R12, R13, R30, R31	5	Yageo or NXP	RC0603FR-101KL	1k	R0603	1k Ohms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resistant Thick Film		SMD			RC0603FR-101KL
R16, R17, R19, R20, R27, R28	6	Yageo or NXP	RC0603FR-0722RL	22	R0603	22 Ohms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Moisture Resistant Thick Film		SMD			RC0603FR-0722RL
R18	1	Yageo or NXP	RC0603FR-07100RL	100	R0603	100 Ohms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Thick Film		SMD			RC0603FR-07100RL
R29	1	Yageo or NXP	RC0603FR-071K5L	1.5k	R0603	1.5k Ohms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Thick Film		SMD			RC0603FR-071K5L
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 тип1	DNP	SMD		<a href="https://www.chipdip.ru/product/pls-6">https://www.chipdip.ru/product/pls-6</a>	PLS-6
TVS1	1	STM	USBLC6-2P6		SOT-666	17V Clamp 5A (8/20us) Ipp Tvs Diode Surface Mount SOT-666		SMD	<a href="https://static.chipdip.ru/lib/583/D0C001093117.pdf">https://static.chipdip.ru/lib/583/D0C001093117.pdf</a>	<a href="https://www.chipdip.ru/product/usblc6-2p6">https://www.chipdip.ru/product/usblc6-2p6</a>	USBLC6-2P6
U1	1	NXP USA	TJA1042TK/3		VDFN-8 NXP USA	1/1 Transceiver Half CANbus B-SO		SMD	<a href="https://static.chipdip.ru/lib/583/D0C001583059.pdf">https://static.chipdip.ru/lib/583/D0C001583059.pdf</a>	<a href="https://www.chipdip.ru/product/tja1042tk/3">https://www.chipdip.ru/product/tja1042tk/3</a>	TJA1042TK/3
U3	1	MaxLinear, Inc.	SPX3819M5-L-3-3/TR	3V3	SOT-23-5 Exar	Low Dropout Voltage Regulator, Adjustable 0.5A, 8±1%, 2.5 to 16 Vin, 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/spx3819m5-l-3-3-tr">https://www.chipdip.ru/product/spx3819m5-l-3-3-tr</a>	SPX3819M5-L-3-3/TR
U4	1	STM	STM32F103CBT6		LOFP-48	ARM® Cortex®-M3 STM32F103CBT6 Microcontroller 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/D0C000235733.pdf">https://static.chipdip.ru/lib/235/D0C000235733.pdf</a>	<a href="https://www.chipdip.ru/product/stm32f103cbt6">https://www.chipdip.ru/product/stm32f103cbt6</a>	STM32F103CBT6
VUSB	1		LTST-C194KFKT	ORANGE	0603 Lite-On	Orange 605nm LED Indication- Discrete 2.2V 0603 (1608 Metric)		SMD			0603-LED-ORANGE
Y1, Y2	2	Murata	CSTCE8M00G55-R0		SMD-3 Murata	Ceramic Resonator 8MHz ±70.5% _Tol_ ±70.2% _Stability_ 33pF 400cm 3-Pin CSMD T/R		SMD	<a href="https://www.murata.com/en-us/api/pdf/downloaddata?rate=60&amp;rate=80">https://www.murata.com/en-us/api/pdf/downloaddata?rate=60&amp;rate=80</a>	<a href="https://www.chipdip.ru/product/cstce8m00g55-r0">https://www.chipdip.ru/product/cstce8m00g55-r0</a>	CSTCE8M00G55-R0