



## Bill of Materials for the STR-NCV6357-GEVBB Evaluation Board

Item Number	Quantity	Part Reference	MFR	MFRPN	Package	Value	Voltage	Description
1	10	C1 C2 C3 C4 C5 C8 C9 C10 C11	Murata	GCM21B	0805	10uF	6.3V	CAP CER 10UF 6.3V X7R 0805
2	4	C6 C7 C12 C13			0603-1206	DNI	?V	Generic 0603-1206 SMD Capacitor
3	2	C15 C16	Murata	GCM188	0603	10nF	10V	Generic 0603 SMD Capacitor
4	2	C17 C18	Murata	GCM155	0402	1uF	10V	CAP CER 1UF 10V X7S 0402
5	6	C19 C20 C32 C35 C37 C39	Murata	GRM155	0402	1uF	16V	CAP CER 1UF 16V X5R 0402
6	2	C21 C23	Murata	GCM21B	0805	4.7uF	35V	CAP CER 4.7UF 35V X7S 0805
7	1	C22	Murata	GCM155	0402	1nF	50V	Generic 0402 SMD Capacitor
8	6	C24 C27 C29 C31 C33 C34	Murata	GRM155	0402	4.7uF	6.3V	Generic 0402 SMD Capacitor
9	2	C25 C26	Murata	GRM1555	0402	12.5pF	25V	Generic 0402 SMD Capacitor
10	2	C28 C30	Murata	GJM1555 C1H7R5C B01D	0402	7.5pF	50V	CAP CER 7.5PF 50V COG/NP0 0402
11	2	C36 C40	Murata	GCM155	0402	0.1uF	50V	CAP CER 0.1UF 50V X7R 0402
12	1	C38	Murata	GRM188	0603	10uF	25V	CAP CER 10UF 25V X5R 0603
13	2	D1 D4	Würth Elektronik	150060R	0603	150060RS75000	5V	Red LED
14	1	D2	ON Semiconductor	NZ9F2V7 T5G	SOD-923	NZ9F2V7	2.7V	DIODE ZENER 2.7V 250MW SOD923
15	1	D3			SOD-923	DNI	3.3V	Generic SOD-923 Zener Diode
16	1	D5	Würth Elektronik	150060G	0603	150060GS75000	5V	Green LED
17	1	D6	Würth Elektronik	150060B S75000	0603	150060BS75000	5V	Blue LED
18	1	D7	Würth Elektronik	150060Y	0603	150060YS75000	5V	Yellow LED
19	2	D8 D9	ON Semiconductor	NSR20F2 0NX	DSN2 0603	NSR20F20NX	20V	Schottky Barrier Diode, 2.0 A, 20 V
20	1	D10	ON Semiconductor	SESD7L5	SOT-723	SESD7L	5.5V	Auto ESD Protection Diodes
21	1	FB1	Murata	BLM21A G221SN1	0805	220@100M		Ferrite bead/Impedance type filter
22	4	J1 J2 J14 J15	Würth		M3 Nut	709940300		PLASTIC HEXAGON NUT M3
23	3	J3 J4 J5			200x300mil	DNI		Rectangle power pad 200x300 mils
24	3	J6 J7 J12	Würth Elektronik	613 002 111 21	1x2pin 100mil	613 002 111 21		Standard 1x2pin 100mil Pitch Header
25	2	J8 J9	Deltron	571-0500	Red Banana Rec	571-0500		Red Insulated 4mm socket for banana plugs
26	1	J10	Samtec	IPBS-104- 01-T-D- GP	2x4pin 165mil	IPBS-104-01-T-D-GP		DLT 8 pin connector
27	2	J11 J13	Deltron	571-0100	Black Banana Rec	571-0100		Black Insulated 4mm socket for banana plugs
28	4	J16 J17 J20 J21	Würth	97110036 5	M3 10MM	971100365		PLASTIC SPACER STUD METRIC THREAD M3 10MM
29	1	J18	Samtec	FTSH- 105-01-F- DV-K	2x5pin 50mil Cortex Debug	FTSH-105-01-F-DV-K		Standard Arm Cortex Debug Connector
30	1	J19	Würth Elektronik	65100516 121	Mini USB1/2 B	65100516121		Mini USB1/2 Type-B Connector

31	2	JP1 JP2	Stackpole Electronics	HCJ0603 ZTOR00	0603	DNI		Surface Mount High Current Jumper Chip Resistor
32	1	JP3	Stackpole Electronics	HCJ0402 ZTOR00	0402	DNI		Surface Mount High Current Jumper Chip Resistor
33	1	L1	Würth	784383360033	5x5mm	330 nH		Generic 5x5mm Inductor
34	1	Q1	ON Semiconductor	2V7002W	SOT-323	2V7002W	60V	Automotive Small Signal MOSFET 60V 340mA 2.5 Ohm Single N-Channel SOT-323
35	3	Q2 Q3 Q4	ON Semiconductor	2N7002W	SOT-323	2N7002W	60V	Small Signal MOSFET 60V 340mA 2.5 Ohm Single N-Channel SOT-323
36	9	R1 R2 R4 R13 R15 R16 R17 R23 R29	Vishay	CRCW040210K0F	0402	10K		RES SMD 10K OHM 1% 1/16W 0402
37	1	R3	Vishay	CRCW040210R0F	0402	10		RES SMD 10 OHM 1% 1/16W 0402
38	1	R5	Rohm Semiconductor	PMR100HZPFU7L00	2512	7mOhm		Generic 2512 SMD Resistor
39	1	R6	Rohm Semiconductor	PMR100HZPFV4L00	2512	4mOhm		Generic 2512 SMD Resistor
40	4	R7 R8 R9 R10	Vishay	CRCW06034R75F	0603	4.75		RES SMD 4.75 OHM 1% 1/10W 0603
41	3	R11 R14 R20	Vishay	CRCW06031K00F	0603	1K		RES SMD 1K OHM 1% 1/10W 0603
42	1	R12	Vishay	CRCW06035K11F	0603	5.11K		RES SMD 5.11K OHM 1% 1/10W 0603
43	1	R18	Vishay	CRCW04023K83F	0402	3.83K		RES SMD 3.83K OHM 1% 1/16W 0402
44	1	R19	Vishay	CRCW040220K0F	0402	20K		RES SMD 20K OHM 1% 1/16W 0402
45	2	R21 R22	Vishay	CRCW04024K99F	0402	4.99K		RES SMD 4.99K OHM 1% 1/16W 0402
46	1	R24	Vishay	CRCW04025K11F	0402	5.11K		RES SMD 5.11K OHM 1% 1/16W 0402
47	1	R25	Vishay	CRCW04028K87F	0402	8.87K		RES SMD 8.87K OHM 1% 1/16W 0402
48	1	R26	Vishay	CRCW04029K76F	0402	9.76K		RES SMD 9.76K OHM 1% 1/16W 0402
49	1	R27	Vishay	CRCW0402665RF	0402	665		RES SMD 665 OHM 1% 1/16W 0402
50	2	R28 R32	Vishay	CRCW0402100RF	0402	100		RES SMD 100 OHM 1% 1/16W 0402
51	1	R30	Vishay	CRCW0603100RF	0603	100		RES SMD 100 OHM 1% 1/10W 0603
52	1	R31	Vishay	CRCW04022K32F	0402	2.32K		RES SMD 2.32K OHM 1% 1/16W 0402
53	1	SW1	Würth Elektronik	434153017835	MOM1 SMD	434153017835	12V	SWITCH TACTILE SPST-NO 0.05A 12V
54	17	TP1 TP3 TP4 TP5 TP6 TP7 TP8 TP9 TP10 TP11 TP12 TP13 TP14 TP16 TP18 TP20 TP22			0.75mm	DNI		Passive Probe Tip Tektronix P5050 (Tan) Tip
55	1	TP2			63mil	DNI		63mil Hole 100mil Pad
56	5	TP15 TP17 TP19 TP21 TP23			1mm Circle	DNI		Surface Mount 1mm Circle Test Point
57	1	U1	ON Semiconductor	NCV6357MTWCTXG	WDFNW14 4x3	NCV6357		Configurable 5.0 A AOT Step Down Converter
58	1	U2	ON Semiconductor	NCT375MNR2G	DFN8 2x2mm	NCT375		Digital Temperature Sensor with 2-wire Interface
59	2	U3 U4	ON Semiconductor	NCV214RSQT2G	SC-70-6	NCV214R		Current-Shunt Monitor, Voltage Output, Bi-Directional Zero-Drift, Gain = 100V/V
60	1	U5	ON Semiconductor	NCP308MTADJTBG	WDFN6 2x2mm	NCP308MTADJTBG		Low Quiescent Current, Programmable Delay Time, Supervisor Circuit
61	1	U6	Silicon Labs	LM32G380F1024-REP100	QFP100 14x14	EFM32GG380F1024		EFM32 Giant Gecko 32-bit Microcontroller
62	1	U7	ON Semiconductor	MT33TC	WDFN6	NCP705		3.3V Voltage Regulator, LDO, Ultra Low Noise, Ultra Low Iq, 500 mA
63	1	U8	FTDI	FT230XR	QFN16 4x4	FT230X		USB to BASIC UART IC
64	1	Y1	Micro Crystal	32.768kHz-12.5pF-20PPM-TA-QC-Au	2 pin w/ shell	32.768 kHz		Crystals 32.768 kHz 12.5 pF +/-20 PPM -40/+85C

65	1	Y2	NDK	NX5032G A- 48.00000 0MHZ-LN- CD-1	5x3.2mm	48MHz		CRYSTAL 48.0000MHZ 8PF SMD
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