1K R14, R15 0603 RES 0603 RES switch 4 way S1 KLS7-KPR switch 4 way AMS1117 U1, U6 SOT223 AMS1117 NUC12SRE3DE Integrated Circuit for programming nuvaton U2 LQFP50P1200X1200X1 85-64N NUC12SRE3DE	Comment	Description	Designator	Footprint	LibRef	Quantity
10UF/10V	Push Button		B1	6x6 push button	Push Button	1
100nF	20pF			CAP 0603	0603 CAP	6
100 100	10uF/10V	TANTAL CAP 0603			0603 TANTAL CAP	7
TANTAL CAP	100nF			CAP 0603	0603 CAP	8
LED Green	1uF/16V	TANTAL CAP 0603	C15, C18		0603 TANTAL CAP	2
Led Red Led red D2, D4, D9 LED Red Led Red LED Yellow Led Yellow D3 LED Yellow LED Yellow	1uF		C17	CAP 0603	0603 CAP	1
LED Yellow	LED Green	Led Green	D1, D10	LED Green	LED Green	2
SSZA Diode DS, D6, D7, D8 Diode SSZA SSZA Diode 1/3 Header 2.54mm 1/3 Header 2.54mm 1/4 2/2 HeaDer 2.54mm 1/4 Header 2.54mm 1/5 Header 2.54mm 1/5 Header 2.54mm 1/5 Header 2.54mm 1/5 Header 2.54mm 1/5 Header 2.54mm 1/5 Header 2.54mm 1/5 Header 2.54mm 1/5 Header 2.54mm 1/5 Header 2.54mm 1/5 Header 2.54mm 1/5 Header 2.54mm 1/6 Micro USB With Type B 1/4 J. J. B Micro USB With Type B 1/2 Idemens 1/2	Led Red	led red	D2, D4, D9	LED Red	Led Red	3
133 Header 2.54mm	LED Yellow	Led Yellow	D3	LED Yellow	LED Yellow	1
2x2 header 2.54mm	SS2A Diode		D5, D6, D7, D8	Diode SS2A	SS2A Diode	4
1X5 Header 2.54 mm 12 1x5 header 2.54 mm 1X6 Header 2.54 mm 1X7 Header 2.54 mm 1X2 Klemens 1x3 Header 2.54 mm 1X10 Header 2.54 mm 1x8 Header 2.54 mm 1x8 Header 2.54 mm 1x7 Header 3.54 mm 1x8 Header 3.54 mm	1X3 Header 2.54mm		j8	1x3 2.54mm	1X3 Header 2.54mm	1
2X5 Header 2.54mm	2x2 header 2.54mm		J1	2X2 HEADER 2.54MM	2x2 header 2.54mm	1
Micro USB With Type B J4, J6 Micro USB with type B Micro USB With Type B 1x2 klemens J7 1x2 klemens 1x2 klemens 2x7 Header 2.54mm J11, J16, J17, J18 2x7 HEADER 2.54mm 2x7 Header 2.54mm 1x10 Header 2.54mm J12, J13 1x10 header 2.54mm 1x10 Header 2.54mm 1x8 header 2.54mm J14 1x8 HEADER 2.54mM 1x8 header 2.54mm 1x7 Header digi J15 1x7 header 2.54 mm, 1x7 Header digi 5errite Bead 0603 FERRITE BEAD LR1, LR2, LR3, LR4, LR5, LR6 FERRITE BEAD 0603 Ferrite Bead 33R R1, R2, R3, R4, R5 0603 RES 0603 RES 100K R6, R7, R8 0603 RES 0603 RES 10K R11, R12, R16 0603 RES 0603 RES 12DR R13 0603 RES 0603 RES 12DR R14, R15 0603 RES 0603 RES 12DR R13 0603 RES 0603 RES 12DR R14, R15 0603 RES 0603 RES 12DR R14, R15 0603 RES 0603 RES <	1X5 Header 2.54 mm		J2	1x5 header 2.54mm	1X5 Header 2.54 mm	1
1x2 klemens 1x2 klemens 1x2 klemens 1x2 klemens 1x2 klemens 2x7 Header 2.54mm 2x7 Header 2.54mm 2x7 Header 2.54mm 2x7 Header 2.54mm 1x10 Header 2.54mm 1x10 Header 2.54mm 1x10 Header 2.54mm 1x8 header 2.54mm 1x7 Header disj 1x7 header disj 1x7 header 2.54mm 1x7 Header disj 1x7 header 2.54mm 1x8 header 2.54mm 1x10 head	2X5 Header 2.54mm		J3, J5	2x5 header 2.54mm	2X5 Header 2.54mm	2
2X7 Header 2.54mm 311, 316, 317, 318 2X7 HEADER 2.54mm 2X7 Header 2.54mm 1X10 Header 2.54mm 312, 313 1x10 header 2.54mm 1x8 header 2.54mm 1x7 header disj 15 1x7 header 2.54mm 1x7 header disj 1x7 header 2.54mm 1x8 header 2.54mm 1x7 header 2.54mm 1x8 header 2.54mm header 2.54mm 1x8 header 2.54mm header	Micro USB With Type B		J4, J6	Micro USB with type B	Micro USB With Type B	2
1X10 Header 2.54mm 312, 313 1x10 header 2.54mm 1X10 Header 2.54mm 1x8 header 2.54mm 1x7 header disj 1x7 header 2.54 mm, 1x7 header 2.54 header 2	1x2 klemens		J7	1x2 Klemens	1x2 klemens	1
1x8 header 2.54mm J14 1x8 header 2.54mm 1x8 header 2.54mm 1x7 header dişi J15 1x7 header 2.54 mm, 1x7 header dişi Ferrite Bead 0603 FERRITE BEAD LR1, LR2, LR3, LR4, LR5, LR6 FERRITE BEAD 0603 Ferrite Bead 33R R1, R2, R3, R4, R5 0603 RES 0603 RES 100K R6, R7, R8 0603 RES 0603 RES 20R R9 0603 RES 0603 RES 333R R10 0603 RES 0603 RES 10K R11, R12, R16 0603 RES 0603 RES 12OR R13 0603 RES 0603 RES 1K R14, R15 0603 RES 0603 RES 1K R14, R15 0603 RES 0603 RES 9witch 4 way S1 RL57-KPR switch 4 way AMS1117 U1, U6 SOT223 AMS1117 NUC12SRE3DE Integrated Circuit for programming nuvaton LQFP50P1200X1200X1 NUC12SRE3DE NUF2030XV6 V3, U5 NUF2030XV6 NUF2030XV6 SN65HVD230D CAN TRANSCEIVER	2X7 Header 2.54mm		J11, J16, J17, J18	2X7 HEADER 2.54MM	2X7 Header 2.54mm	4
1x7Header dişi J15 1x7 header 2.54 mm, 1x7Header dişi Ferrite Bead 0603 FERRITE BEAD LR1, LR2, LR3, LR4, LR5, LR6 FERRITE BEAD 0603 Ferrite Bead 33R R1, R2, R3, R4, R5 0603 RES 0603 RES 100K R6, R7, R8 0603 RES 0603 RES 20R R9 0603 RES 0603 RES 333R R10 0603 RES 0603 RES 10K R11, R12, R16 0603 RES 0603 RES 120R R13 0603 RES 0603 RES 1K R14, R15 0603 RES 0603 RES 1K R14, R15 0603 RES 0603 RES switch 4 way S1 KLS7-KPR switch 4 way AMS1117 U1, U6 SOT223 AMS1117 NUC12SRE3DE Integrated Circuit for programming nuvaton U2 LQFP50P1200X1200X1 85-64N NUF2030XV6 U3, U5 NUF2030XV6 NUF2030XV6 SN65HVD230D CAN TRANSCEIVER U4 SN65HVD231D SN65HVD230D NUC240LD2AE Integrated Ci	1X10 Header 2.54mm		J12, J13	1x10 header 2.54mm	1X10 Header 2.54mm	2
Ferrite Bead 0603 FERRITE BEAD LR1, LR2, LR3, LR4, LR5, LR6 FERRITE BEAD 0603 Ferrite Bead 33R R1, R2, R3, R4, R5 0603 RES 0603 RES 100K R6, R7, R8 0603 RES 0603 RES 20R R9 0603 RES 0603 RES 333R R10 0603 RES 0603 RES 10K R11, R12, R16 0603 RES 0603 RES 12QR R13 0603 RES 0603 RES 1K R14, R15 0603 RES 0603 RES switch 4 way S1 KLS7-KPR switch 4 way AMS1117 U1, U6 SOT223 AMS1117 NUC12SRE3DE Integrated Circuit for programming nuvaton U2 LQFPS0P1200X1200X1 NUC12SRE3DE NUF2030XV6 U3, U5 NUF2030XV6 NUF2030XV6 SN65HVD230D CAN TRANSCEIVER U4 SN65HVD231D SN65HVD230D NUC240LD2AE Integrated Circuit U7 LQFP50P900X90X160-48N NUC240LD2AE Crystal Oscillatör 12Mhz X1, X2 Crystal Oscillatör Crys	1x8 header 2.54mm		J14	1X8 HEADER 2.54MM	1x8 header 2.54mm	1
R1, R2, R3, R4, R5	1x7Header dişi		J15	1x7 header 2.54 mm,	1x7Header dişi	1
100K R6, R7, R8 0603 RES 0603 RES 20R R9 0603 RES 0603 RES 333R R10 0603 RES 0603 RES 10K R11, R12, R16 0603 RES 0603 RES 12QR R13 0603 RES 0603 RES 14K R14, R15 0603 RES 0603 RES 15K R14, R15 0603 RES 0603 RES 16K R14, R15 0603 RES 0603 RES 16K R14, R15 0603 RES 0603 RES 16K R14, R15 0503 RES 0603 RES 16K R14, R15 0603 RES 0603 RES	Ferrite Bead	0603 FERRITE BEAD		FERRITE BEAD 0603	Ferrite Bead	6
20R R9 0603 RES 0603 RES 333R R10 0603 RES 0603 RES 10K R11, R12, R16 0603 RES 0603 RES 120R R13 0603 RES 0603 RES 1K R14, R15 0603 RES 0603 RES switch 4 way S1 KLS7-KPR switch 4 way AMS1117 U1, U6 SOT223 AMS1117 NUC12SRE3DE Integrated Circuit for programming nuvaton U2 LQFP50P1200X1200X1 NUC12SRE3DE NUF2030XV6 U3, U5 NUF2030XV6 NUF2030XV6 SN65HVD230D CAN TRANSCEIVER U4 SN65HVD231D SN65HVD230D NUC240LD2AE Integrated Circuit U7 LQFP50P900X900X160-48N NUC240LD2AE Crystal Oscillatör 12Mhz X1, X2 Crystal Oscillatör Crystal Oscillatör	33R		R1, R2, R3, R4, R5	0603 RES	0603 RES	5
333R	100K		R6, R7, R8	0603 RES	0603 RES	3
10K R11, R12, R16 0603 RES 0603 RES 120R R13 0603 RES 0603 RES 1K R14, R15 0603 RES 0603 RES switch 4 way S1 KLS7-KPR switch 4 way AMS1117 U1, U6 SOT223 AMS1117 NUC12SRE3DE Integrated Circuit for programming nuvaton U2 LQFP50P1200X1200X1 85-64N NUC12SRE3DE NUF2030XV6 U3, U5 NUF2030XV6 NUF2030XV6 SN65HVD230D CAN TRANSCEIVER U4 SN65HVD231D SN65HVD230D NUC240LD2AE Integrated Circuit U7 LQFP50P900X900X160-48N NUC240LD2AE Crystal Oscillatör 12Mhz X1, X2 Crystal Oscillatör Crystal Oscillatör	20R		R9	0603 RES	0603 RES	1
120R R13 0603 RES 0603 RES 1K R14, R15 0603 RES 0603 RES switch 4 way S1 KLS7-KPR switch 4 way AMS1117 U1, U6 SOT223 AMS1117 NUC12SRE3DE Integrated Circuit for programming nuvaton programming nuvaton U2 LQFP50P1200X1200X1 NUC12SRE3DE NUF2030XV6 U3, U5 NUF2030XV6 NUF2030XV6 SN65HVD230D CAN TRANSCEIVER U4 SN65HVD231D SN65HVD230D NUC240LD2AE Integrated Circuit U7 LQFP50P900X900X160-48N NUC240LD2AE Crystal Oscillatör 12Mhz X1, X2 Crystal Oscillatör Crystal Oscillatör	333R		R10	0603 RES	0603 RES	1
1K R14, R15 0603 RES 0603 RES switch 4 way S1 KLS7-KPR switch 4 way AMS1117 U1, U6 SOT223 AMS1117 NUC12SRE3DE Integrated Circuit for programming nuvaton programming nuvaton U2 LQFP50P1200X1200X1 NUC12SRE3DE NUF2030XV6 U3, U5 NUF2030XV6 NUF2030XV6 SN65HVD230D CAN TRANSCEIVER U4 SN65HVD231D SN65HVD230D NUC240LD2AE Integrated Circuit U7 LQFP50P900X900X160-48N NUC240LD2AE Crystal Oscillatör 12Mhz X1, X2 Crystal Oscillatör Crystal Oscillatör	10K		R11, R12, R16	0603 RES	0603 RES	3
switch 4 way S1 KLS7-KPR switch 4 way AMS1117 U1, U6 SOT223 AMS1117 NUC12SRE3DE Integrated Circuit for programming nuvaton U2 LQFP50P1200X1200X1 85-64N NUC12SRE3DE NUF2030XV6 U3, U5 NUF2030XV6 NUF2030XV6 SN65HVD230D CAN TRANSCEIVER U4 SN65HVD231D SN65HVD230D NUC240LD2AE Integrated Circuit U7 LQFP50P900X900X160-48N NUC240LD2AE Crystal Oscillatör 12Mhz X1, X2 Crystal Oscillatör Crystal Oscillatör	120R		R13	0603 RES	0603 RES	1
AMS1117 U1, U6 SOT223 AMS1117 NUC12SRE3DE Integrated Circuit for programming nuvaton U2 LQFP50P1200X1200X1 85-64N NUC12SRE3DE NUF2030XV6 U3, U5 NUF2030XV6 NUF2030XV6 SN65HVD230D CAN TRANSCEIVER U4 SN65HVD231D SN65HVD230D NUC240LD2AE Integrated Circuit U7 LQFP50P900X900X160-48N NUC240LD2AE Crystal Oscillatör 12Mhz X1, X2 Crystal Oscillatör Crystal Oscillatör	1K		R14, R15	0603 RES	0603 RES	2
NUC12SRE3DE Integrated Circuit for programming nuvaton U2 LQFP50P1200X1200X1 85-64N NUC12SRE3DE NUF2030XV6 U3, U5 NUF2030XV6 NUF2030XV6 SN65HVD230D CAN TRANSCEIVER U4 SN65HVD231D SN65HVD230D NUC240LD2AE Integrated Circuit U7 LQFP50P900X900X160-48N NUC240LD2AE Crystal Oscillatör 12Mhz X1, X2 Crystal Oscillatör Crystal Oscillatör	switch 4 way		S1	KLS7-KPR	switch 4 way	1
NUC12SRE3DE programming nuvaton U2 85-64N NUC12SRE3DE NUF2030XV6 U3, U5 NUF2030XV6 NUF2030XV6 SN65HVD230D CAN TRANSCEIVER U4 SN65HVD231D SN65HVD230D NUC240LD2AE Integrated Circuit U7 LQFP50P900X900X160-48N NUC240LD2AE Crystal Oscillatör 12Mhz X1, X2 Crystal Oscillatör Crystal Oscillatör	AMS1117		U1, U6	SOT223	AMS1117	2
SN65HVD230D CAN TRANSCEIVER U4 SN65HVD231D SN65HVD230D NUC240LD2AE Integrated Circuit U7 LQFP50P900X900X160-48N Crystal Oscillatör 12Mhz X1, X2 Crystal Oscillatör Crystal Oscillatör	NUC12SRE3DE		U2		NUC12SRE3DE	1
SN65HVD230D CAN TRANSCEIVER U4 SN65HVD231D SN65HVD230D NUC240LD2AE Integrated Circuit U7 LQFP50P900X900X160-48N Crystal Oscillatör 12Mhz X1, X2 Crystal Oscillatör Crystal Oscillatör	NUF2030XV6		U3, U5	NUF2030XV6	NUF2030XV6	2
Crystal Oscillatör 12Mhz X1, X2 Crystal Oscillatör Crystal Oscillatör		CAN TRANSCEIVER	,			1
	NUC240LD2AE	Integrated Circuit	U7		NUC240LD2AE	1
	Crystal Oscillatör	12Mhz	X1, X2	Crystal Oscillatör	Crystal Oscillatör	2
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Crystal Oscillator	32.768KHz	Х3	32.768 KHz Oscillatör	Crystal Oscillator	1