

Comment	Description	Designator	Footprint	Quantity	Note
10pF	Capacitor	C1, C2, C32, C34	0603C	4	
100nF	Capacitor	C3, C5, C7, C9, C10, C11, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C28, C35, C36	0603C	39	
10uF	Capacitor	C4	1206C	1	@ 6.3V
4.7uF	Capacitor	C6, C8, C27, C40	0805C	4	@ 6.3V
3.3uF	Capacitor	C12	0805C	1	
1nF	Capacitor	C25, C30, C43, C85	0603C	4	
20pF	Capacitor	C26	0603C	1	
10nF	Capacitor	C29, C41, C75, C76	0603C	4	
10uF	Capacitor	C31, C38, C47, C48, C49, C60, C61	0805C	7	@ 6.3V
4.7nF	Capacitor	C33, C88	0603C	2	
10uF	Capacitor	C37	1210	1	@ 50V
220pF	Capacitor	C42	0603C	1	
470nF	Capacitor	C50, C52, C54, C56, C87	0603C	5	@ 50V
470pF	Capacitor	C51, C53, C55, C57, C59, C63, C65, C67, C69, C71, C73	0603C	11	
1uF	Capacitor	C77	0603C	1	
27pF	Capacitor	C80, C81	0603C	2	
47nF	Capacitor	C89	0603C	1	
22uF	Capacitor	C90	0805C	1	@ 6.3V
1pF	Capacitor	C91	0603C	1	
LED - Green		D1, D2, D3, D4, D5	0805D	5	
STPS2L40	Default Diode	D6	SMB	1	
LED - Green	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D7, D8, D9, D11, D12, D13	0805D	6	
BAS40	High Conductance Fast Diode	D10	SOD323	1	
LED - Red	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D14	0805D	1	
STPS340U	Default Diode	D15	SMB	1	
Fuse 1A	Fuse	F1	0603R	1	
Bead	Inductor	FB1	0603L	1	
PWMH	Connector	J1	HDR1X10 - SMD/2.54	1	Female
PWML	Connector	J2	HDR1X8 - SMD/2.54	1	Female
COMMUNICATION	Connector	J3	HDR1X8 - SMD/2.54	1	Female
POWER	Connector	J4	HDR1X8 - SMD/2.54	1	Female
ADCL	Connector	J5	HDR1X8 - SMD/2.54	1	Female
ADCH	Connector	J6	HDR1X8 - SMD/2.54	1	Female
4 HEADER	4 Pin Header	JP1, JP6	SIP4	2	
XIO		JP2	HDR2X18	1	
SPI		JP3	HDR2X3	1	
RXD		JP4	HDR1X5	1	
TXD		JP5	HDR1X5	1	
FR_TX		JP7	SIP3	1	
FR_TXEN		JP8	SIP3	1	
FR_RX		JP9	SIP3	1	
CAN		JP10	SIP2	1	
LIN Master/Slave		JP11	SIP3	1	
		JP12, JP24	SIP3	2	
GPIO99		JP13, JP25, JP26	SIP2	3	
GPIO98		JP14, JP18	SIP2	2	
A2		JP15	SIP3	1	
A3		JP16	SIP3	1	
A4		JP17	SIP3	1	
ADC1_AN10		JP19	SIP2	1	
ADC1_AN5		JP20	SIP2	1	
LIN_CS		JP21	SIP2	1	
CNRX		JP22	SIP3	1	
CNTX		JP23	SIP3	1	
367-4812	Ferrite bead	L1, L2, L3, L4, L6	0603L	5	
DLW43SH101XK2	choke coil	L5	DLW43SH101XK2	1	
22uH@1.6A	Inductor	L7	VLP 6X6	1	
USB_MINI_B	USB-MINI_B	P1	USB/SM0.8-6H5	1	
HEADER 4X2		P2, P3	IDC8	2	
BCP68	NPN Bipolar Transistor	Q1	SOT-223	1	
12K	Resistor	R1	0603R	1	
10R	Resistor	R2, R3	0603R	2	
1K	Resistor	R4, R6, R10, R11, R35, R44, R45, R46, R54, R56	0603R	10	
220R	Resistor	R17, R18	0603R	2	
4k7	Resistor	R7, R8, R12, R15, R16	0603R	5	
2k2	Resistor	R9	0603R	1	
0R	Resistor	R19, R43, R50	0603R	3	
0R	Resistor	R5, R13, R14, R29, R53, R55, R38, R70, R71	0603R	9	NC
10k	Resistor	R20, R24, R26, R27, R30, R33, R47, R48, R49	0603R	9	
0	Resistor	R21, R40	0603R	2	
4K7	Resistor	R22	0805R	1	
47R	Resistor	R23, R25	0805R	2	
47k	Resistor	R28	0603R	1	
120	Resistor	R31	0805R	1	
0R 0805/1206	Resistor	R32	0805R	1	
3.3k	Resistor	R34	0603R	1	
1k	Resistor	R36	0805R	1	

270R	Resistor	R37	0603R	1	
51	Resistor	R39, R62	0603R	2	
100K	Resistor	R41, R67, R68, R69	0603R	4	
20k		R42	0603R	1	
5K	Resistor	R51	0603R	1	
1M	Resistor	R52	0603R	1	
10K	Potentiometer	R57, R58	Rdip2	2	
2.2k	Resistor	R59	0603R	1	
5K1	Resistor	R60, R61	0603R	2	
4K99	Resistor	R63	0603R	1	1%
150k	Resistor	R64	0603R	1	
1.1k	Resistor	R65	0603R	1	
680R	Resistor	R66	0603R	1	1%
RESPACK3 - 0R	Resistor array	RP1	RES 0402X8	1	
SWITCH		S1	SWITCH (SS-12D10)	1	
RST		S3	SW2_SMT	1	
		TP1	TESTER - TP	1	
3V3 USB		TP2	TESTER1	1	
LIN		TP3	TESTER1	1	
GND		TP4, TP9, TP14	TESTER1	3	
K		TP5	TESTER1	1	
BM		TP6	TESTER1	1	
BP		TP7	TESTER1	1	
CANL		TP8	TESTER1	1	
CANH		TP10	TESTER1	1	
5V		TP11	TESTER1	1	
External Supply		TP12	TESTER1	1	
3V3		TP13	TESTER1	1	
RST		TP15	TESTER1	1	
FT2232H		U1	LQFP50P1000X1000X16-64N	1	
SN74LVC1T45DCK		U2, U3, U5, U6, U7, U10, U11, U12	SC-70-6	8	
USBLC6-2P6	USBLC6-2P6	U4	SOT666	1	
M93S46XS	1K (x16) Serial Microwire Bus EEPROM With Block Protection	U8	SO-8	1	
LD1117S33TR		U9	SOT-223	1	
SPC560PxxL5		U13	LQFP144	1	
L9637D		U14	SO-8	1	
TJA1080		U15	SSOP20	1	
SPC560Pxx		U16	LQFP144	1	
LD1117-3V3		U17	DPAK(123)	1	
TJA1020/1021		U18	SO-8	1	
STS8C5H30L	P/N MOSFET	U19, U23	SO-8	2	
STM6315RB - 2.63V		U20	SOT143-4	1	
LMV358	Low-Power Dual Operational Amplifier	U22	TSSOP8	1	
AMIS-30663	High speed CAN transceiver, 3.3/5V logic	U24	SO8	1	
A7985	2A Buck regulator for automotive application	U25	so-8	1	
JTAG 14-PIN		X1, X2	Header7x2	2	
HEADER 37X4		X4	HDR37X4	1	
STPS2L40	Default Diode	D16, D17	SMB	2	NC
DC-10A		X5	DC10A	1	
12MHZ	Crystal Oscillator	Y1	XTAL-SMD-4	1	
12MHz	Crystal Oscillator	Y2	XTAL_SOCKET	1	
Jumpers				18	
Spacer				4	