Report Generated From Altium Designer

Value	Quantity	Comment	Footprint	Description	Designator	LibRef
22p	4	0603	SMD_Capacitor_0603	Capacitor	C1, C2, C8, C9	Cap1
10n	7	0603	SMD_Capacitor_0603	Capacitor	C3, C27_RTD_interface1, C27_RTD_interface2, C28_RTD_interface1, C28_RTD_interface2, C30_RTD_interface1, C30_RTD_interface2	Cap1, Cap, Cap, Cap, Cap, Cap, Cap
10u/50V	7	Tantalum	Tantalum_cap_D	Polarized Capacitor (Radial)	C5, C16, C17, C18, C19, C21, C31	Cap Pol1
100n	34	0603	SMD_Capacitor_0603	Capacitor	C6, C7, C10, C11, C12, C13, C14, C20, C23_FLASH1, C23_FLASH2, C29_RTD_interface1, C29_RTD_interface2, C33, C34, C36_RTD_interface1, C36_RTD_interface2, C37_RTD_interface1, C37_RTD_interface2, C38, C39, C40, C41, C42, C43_LM601, C43_LM602, C43_LM603, C43_LM604, C44_LM601, C44_LM602, C44_LM603, C44_LM604, C45, C46, C47	Cap1, Cap1, Cap, Cap, Cap, Cap, Cap, Cap, Cap1, Cap1, Cap, Cap, Cap, Cap1, Cap1, Cap1, Cap1, Cap1, Cap1, Cap1, Cap1, Cap, Cap, Cap, Cap, Cap, Cap, Cap, Cap, Cap, Cap1
100n	1	0805	SMD_Capacitor_0805	Capacitor	C15	Cap
100u/10V	1	Tantalum	Tantalum_cap_D	Polarized Capacitor (Radial)	C22	Cap Pol1
1u	2	1206	SMD_Capacitor_1206	Capacitor	C24, C25	Cap
10u	1	1206	SMD_Capacitor_1206	Capacitor	C26	Cap
68u/16V	1	Tantalum	Tantalum_cap_D	Polarized Capacitor (Radial)	C32	Cap Pol1
1n	1	0805	SMD_Capacitor_0805	Capacitor	C35	Cap
BAT165	1	BAT165	SOD323	Madium Power AF Schottky 750mA 40V Diode	D1	BAT165
10mH	2	Inductor	SMD_Capacitor_0805	Inductor	L1, L2	Inductor
	1	UART	HDR1X3	Header, 3-Pin	P1	Header 3
	1	JTAG	HDR2X5	Header, 5-Pin, Dual row	P2	Header 5X2
	1	Sat I2C	HDR1X2	Header, 2-Pin	P3	Header 2
	1	Sat Power	HDR1X3	Header, 3-Pin	P4	Header 3
	2	Header 6	HDR1X6	Header, 6-Pin	P5, P6	Header 6
	1	SOL_A	HDR1X2	Header, 2-Pin	P7	Header 2
	1	SOL_B	HDR1X2	Header, 2-Pin	P8	Header 2
	1	SOL_C	HDR1X2	Header, 2-Pin	P9	Header 2
	1	SOL_D	HDR1X2	Header, 2-Pin	P10	Header 2
	2	Header 3	HDR1X3	Header, 3-Pin	P11, P12	Header 3
100k	24	0603	SMD_Resistor_0603	Resistor	R1_Current_Limit_CH0, R1_Current_Limit_CH1, R1_Current_Limit_CH2, R1_Current_Limit_CH3, R3_Current_Limit_CH0, R3_Current_Limit_CH1, R3_Current_Limit_CH2, R3_Current_Limit_CH3, R30, R37, R61_RTD_interface1, R61_RTD_interface2,	Res2

Value	Quantity	Comment	Footprint	Description	Designator	LibRef
					R62_RTD_interface1, R62_RTD_interface2, R63_RTD_interface1, R63_RTD_interface2, R87, R124_LM601, R124_LM602, R124_LM603, R124_LM604, R126, R137, R138	
500k/1 %	4	0603	SMD_Resistor_0603	Resistor	R2_Current_Limit_CH0, R2_Current_Limit_CH1, R2_Current_Limit_CH2, R2_Current_Limit_CH3	Res2
47k	46	0603	SMD_Resistor_0603	Resistor	R4, R5, R6, R11, R12, R13, R14, R15, R16, R23, R24, R25, R26, R27, R28, R29, R31, R38, R39, R40, R41, R64_RTD_interface1, R64_RTD_interface2, R65_RTD_interface1, R65_RTD_interface2, R66_RTD_interface1, R66_RTD_interface2, R70, R71, R72, R74, R84, R85, R86, R88, R89, R90, R128, R129, R130, R131, R132, R133, R134, R135, R136	Res2
100	42	0603	SMD_Resistor_0603	Resistor	R7, R8, R9, R10, R17, R18, R19, R20, R21, R22, R32, R58_RTD_interface1, R58_RTD_interface2, R59_RTD_interface1, R59_RTD_interface2, R60_RTD_interface1, R60_RTD_interface2, R67, R68, R69, R73, R93, R94, R95, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R113, R114, R115, R116	Res2
100k	5	0805	SMD_Resistor_0805	Resistor	R33, R34, R35, R36, R47	Res2
10	17	1206	SMD_Resistor_1206	Resistor	R42, R43, R44, R45_FLASH1, R45_FLASH2, R46, R76_RTD_interface1, R76_RTD_interface2, R111_RTD_interface1, R111_RTD_interface2, R112, R117, R118, R119, R120, R125, R127	Res2
26.1k/0. 1%	12	0603	SMD_Resistor_0603	Resistor	R48_RTD_interface1, R48_RTD_interface2, R49_RTD_interface1, R49_RTD_interface2, R50_RTD_interface1, R50_RTD_interface2, R54_RTD_interface1, R54_RTD_interface2, R56_RTD_interface1, R56_RTD_interface2, R57_RTD_interface1, R57_RTD_interface2	Res2

Value	Quantity	Comment	Footprint	Description	Designator	LibRef
1k/0.1%	3	0603	SMD_Resistor_0603	Resistor	R51_RTD_interface1, R51_RTD_interface2, R77	Res2
1k/1%	6	0603	SMD_Resistor_0603	Resistor	R52_RTD_interface1, R52_RTD_interface2, R53_RTD_interface1, R53_RTD_interface2, R55_RTD_interface1, R55_RTD_interface2	Res2
2.7k/0.1%	1	0603	SMD_Resistor_0603	Resistor	R75	Res2
1K	1	0805	SMD_Resistor_0805	Resistor	R78	Res2
1K	6	0603	SMD_Resistor_0603	Resistor	R79, R91, R92, R96, R121, R122	Res2
15R/1%	4	15R/1%	SMD_Resistor-shunt_2512	TE CONNECTIVITY 352115RFT RESISTOR, 2512, 2W, 15R, 1%	R80, R81, R82, R83	352115RFT
10	4	0805	SMD_Resistor_0805	Resistor	R123_LM601, R123_LM602, R123_LM603, R123_LM604	Res2
	1	Tact Switch	Tact Switch 3x6		S1	TactSwitch
	1	AD7714YRZ	RW-24_M	5 Channel 24-Bit Signal Conditioning Analog-to-Digital Converter with Serial, SPI Interface, 500 uA, CMOS, 3 V / 5 V, 1KSPS, -40 to +105 degC, RW-24, Pb-Free, Tube	U1	AD7714YRZ
FPF2700MX	4	FPF2700MX	SOIC-8-N	Adj over-current protection 0.4-2A, Load Switch	U2_Current_Limit_CH0, U2_Current_Limit_CH1, U2_Current_Limit_CH2, U2_Current_Limit_CH3	FPF2700MX
	2	AT45DB641E	SOIC-8-N	64-Mbit DataFlash (with Extra 2-Mbits)	U3_FLASH1, U3_FLASH2	AT45DB641E
	1	ATmega325PA-AU	64A_N	8-bit AVR Microcontroller, 1.5-5.5V, 32KB Flash, 1KB EEPROM, 2KB SRAM, 64-pin TQFP, Industrial Grade (-40°C to 85°C)	U4	ATmega325PA-AU
	1	LT1963AES8-3.3#PBF	LT-S8-8_N	1.5 A, Low Noise, Fast Transient Response LDO Regulator, 2.1 to 20 V Vin, 3.3 V Vout, 8-pin SOIC (S8-8), -40 to 125 degC, Pb-Free	U5	LT1963AES8-3.3#PBF
	1	LTC6655-2.5	MSOP-8	0.25ppm Noise, Low Drift Precision References	U6	LTC6655-2.5
	3	ADG709	TSSOP16	CMOS Analog 4-Channel Multiplexer	U7_RTD_interface1, U7_RTD_interface2, U10	ADG709
LTC6079	2	LTC6079	SSOP-16	Rail-to-rail, quad operational amplifier. Library compatible with LTC608X LTC607X op-amps	U8_RTD_interface1, U8_RTD_interface2	LTC6079
	1	LT1963AMPQ#PBF	LT-Q-5_N	1.5 A, Low Noise, Fast Transient Response LDO Regulator, 2.1 to 20 V Vin, Adjustable Vout, 5-pin DPAK (Q-5), -55 to 125 degC, Pb-Free	U9	LT1963AMPQ#PBF
	1	PCA9515APW	PW8_L	Dual Bidirectional I2C Bus and SMBus Repeater, 2 Channel Width, 2.3 to 3.6 V, -40 to 85 degC, 8-pin TSSOP (PW), Green (RoHS & no Sb/Br)	U11	PCA9515APW
	1	SN74LVC3G07-EP	VSSOP-8	Triple Buffer/Driver With Open-Drain Output	U12	SN74LVC3G07-EP
	1	FM25W256	SOIC-8-N	256Kb (8k x 32) SPI F-RAM	U13	FM25W256
	1	SN74AHC125-EP	TSSOP14_L	QUADRUPLE BUS BUFFER GATE WITH 3-STATE OUTPUTS	U14	SN74AHC125-EP
TPS3813xxxDBV	1	TPS3813xxxDBV	SOT23-6	Processor Supervisory Circuits with Window-Watchdog.	U15	TPS3813xxxDBV

Value	Quantity	Comment	Footprint	Description	Designator	LibRef
	4	LM60	SOT23-3	Analog temperature sensor	U16_LM601, U16_LM602, U16_LM603, U16_LM604	LM60
2.4576 MHz	1	2.4576MHz	HC49U	Resonator Ceramic	XT1	Crystal
	1	Value	SMD, 5mm x 3.2mm	Resonator Ceramic	XT2	Crystal_SMD
2.048M Hz	1	2.048MHz	SG7050	Crystal Oscillator	XT3	Crystal Oscillator