

Bill of Materials

Bill of Materials for PCB Document [Processor_unit.PcbDoc]

Source Data From: Processor_unit.PcbDoc

Project: Digital_Module.PrjPcb

Variant: None

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#Column Name	Footprint	Comment	LibRef	Designator	Description	Quantity
	SMD_0805	200p	Capacitor	C1, C2, C3, C4, C5, C6, C7, C8, C45, C46	Capacitor	10
	SMD_0805	0,1u	Capacitor	C9, C17, C20, C21, C23, C28, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C41, C42, C43	Capacitor	19
	SMD_size_C	10u 50V	Capacitor_pol	C10, C11	Polarized capacitor	2
	SMD_0805	0,22u	Capacitor	C12, C14, C16, C19, C24	Capacitor	5
	SMD_size_B	10u 16V	Capacitor_pol	C13, C15, C18, C40, C44	Polarized capacitor	5
	SMD_0805	10u	Capacitor	C22, C27	Capacitor	2
	SMD_0805	0.1u	Capacitor	C25, C29	Capacitor	2
	SMD_0805	10uF	Capacitor	C26	Capacitor	1
	LED-0805	LED	LED	D1, D2, D3		3
	TDN_5_WIS M	TDN 5-4821	TDN_5	G1	DC/DC converter	1
	uSiL-8	TPS82130	TPS82130	G2	17-V Input 3-A Step-Down Converter MicroSiP™ Module with Integrated Inductor	1
	SMD_7050 Crystal_Oscillator	GK108-P	Crystal_Oscillator	GK1	Crystall oscillator, CMOS, 3.3V, SMD7050	1
	SMD_0805	1uH	Inductor	L1, L2, L3, L5	Inductor	4
	ACM2012	65, 100 MHz	Inductor_coupled	L4, L6	Coupled inductor	2
	SMD_0805	1k	Resistor	R1, R2, R3, R4, R5, R6, R7, R8	Resistor	8
	SMD_0805	0,2	Resistor	R9	Resistor	1
	SMD_0805	11k	Resistor	R10, R14	Resistor	2
	SMD_0805	33k	Resistor	R11	Resistor	1
	SMD_0805	15k	Resistor	R12	Resistor	1
	SMD_0805	3k3	Resistor	R13	Resistor	1
	SMD_0805	0.2	Resistor	R15	Resistor	1
	SMD_0805	2K	Resistor	R16, R17	Resistor	2

	SMD_0603	100	Resistor	R18, R19, R20, R21	Resistor	4
	SMD_0603	1k	Resistor	R22, R24, R25, R27, R28, R29, R31, R32, R33, R42, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58	Resistor	20
	SMD_0603	13k	Resistor	R23, R26, R30	Resistor	3
	SMD_0603	10k	Resistor	R34, R35, R36, R37, R38, R39, R40, R43, R44	Resistor	9
	SMD_0603	27	Resistor	R41	Resistor	1
	SMD_0805	27	Resistor	R45, R46, R47, R48	Resistor	4
	VSSOP-10	INA261	INA226	U1, U3	High- or Low-Side Measurement, Bidirectional Current and Power Monitor With I2C Interface	2
	TSOT-5	ADR390	ADR390	U2	Micropower, Low Noise Precision Voltage Reference with Shutdown, 2.5 V Output, 2.8 to 15 V Supply, Industrial, 5-pin SOT23 (UJ-5), Reel	1
	LQFP144	STM32F405ZGT7	STM32F405ZGT	U4	ARM Cortex-M4 32-bit MCU+FPU, 210 DMIPS, 1024 kB Flash, 192 kB Internal RAM, 114 I/Os, 144-pin LQFP, -40 to 105 degC, Tray	1
	SOIC-16-WIDE	ADuM1402	ADuM4160	U5	Quad Channel Digital Isolator, 2.5 KV rms Insulation Rating	1
	EDGE_CONN-8	EDGE_CONN 2x4	EDGE 2X4	X1		1
	SD-card holder	SD-card	SD-card holder	X2	SD-card holder	1
	PLD2-12R 2.54	Header 2X6	PLD2-12	X3, X4	Header, 12-Pin, Dual row	2
	PLD2-4 R 2.54	Header 2X4	PLD2-4	X5	Header, 4-Pin, Dual row	1
	USB Micro-BF smd	mico-BF	MicroUSB	X6	USB mico-BF	1
	PLD2-2	Header 2X1	PLD2-2	X7, X8	Header, 2-Pin, Dual row	2
	PBD2-10s	Header 2X10	PLD2-10	X9	Header, 10-Pin, Dual row	1
	PBD2-20S	Header 2X10	PLD2-20	X10, X11	Header, 12-Pin, Dual row	2
	PLD2-50	Header 2X25	PLD2-50	X12	Header, 50-Pin, Dual row	1
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Approved

Notes
