













Designator	Quantity	Description	Comment	Footprint	Manufacturer	Manufacturer Part Number
B1, B2, B3, B4, B5, B6, B7, B8	8	PLATED_HOLE3.0_PAD6.0	Family	MTG300_600_vias	GENERIC	PLATED_HOLE3.0_PAD6.0
C1, C2, C4, C5, C7, C8, C9, C10, C13, C14, C17, C18, C20, C23, C24, C28, C31, C32, C34	19	C_0805_100nF_50V_10%_X7R	100nF	CAPC2012X135N	Yageo(YAG)	CC0805KPX7R9BB104
C3, C6, C12, C15, C16, C19, C22, C25, C30, C33	10	C_0805_1uF_16V_10%_X7R	1uF	CAPC2012X135N	Murata Electronics Inc. (MUR)	GRM21BR71C105KA01L
C11, C27, C29	1	Cap 1500uF x 6.3V	1500uF	CAPPR500-1050X1300	United Chemi-Con	EKZH6R3ELL152MH20D
		·			Murata Electronics Inc.	
C21, C26	2	C_0805_10uF_10V_10%_X7R	10uF	CAPC2012X135N	(MUR)	GRM21BR71A106KE51L
C35, C36, C37, C38, C39, C40, C41, C42	8	C_0805_1nF_50V_10%_X7R	1nF	CAPC2012X135N	Yageo(YAG)	CC0805KRX7R9BB102
D1, D2, D3, D6	4	1N4148W	1N4148W	SOD3816X118N	On Semiconductor(ONS)	1N4148W
D4	1	MBR0520L	MBR0520L	SOD3816X118N	On Semiconductor(ONS)	MBR0520L
D5	1	1.5 W Zener Voltage Regulator, 2-Pin SMA, Pb-Free, Tape and Reel	5.6	DIOM5027X244N	On Semiconductor	1SMA5919BT3G
IC1, IC2, IC3, IC4	4	PhotoMOS Relay	CPC1008N	SOIC254P610X218-4N	Ixys Corporation (IXYS)	CPC1008N
J1, J2	2	1 Port, 8 Positions, CAT3 RJ45 Horizontal Modular Jack	8P8C	FCI_54602-908LF	Fci Electronics(FCI)	54602-908LF
J3	1	Connector 2.54 3x2-pin	Power	SAMTEC_MTLW-103-07-L-D-250	CONNFLY ELECTRONIC CO.,LTD.(CONNFLY)	PLD-6
J4	1	Connector 2.54 2x2-pin	HDD	SAMTEC_MTLW-102-07-L-D-250	CONNFLY ELECTRONIC CO.,LTD.(CONNFLY)	PLD-8
J5	1	Connector 2.54 2x2-pin	Pwr	SAMTEC_MTLW-102-07-L-D-250	CONNFLY ELECTRONIC CO.,LTD.(CONNFLY)	PLD-8
J6, J16	2	4 Pin + 1 Shield USB Receptacle	USB A	FCI_87520-0010BLF	Te Connectivity(TE)	292303-1
J7	1	4 Pin + 1 Shield USB Receptacle	Family	TYCO_292304-1	Te Connectivity(TE)	292304-1
J8	1	Connector 2.54 2x2-pin	Rst	SAMTEC_MTLW-102-07-L-D-250	CONNFLY ELECTRONIC CO.,LTD.(CONNFLY)	PLD-8
J9	1	Connector 5.08 3-pin	Connector 5.08 3-pin	PHOENIX_1755749		
J10	1	Connector 2.54 2x2-pin	Jumper	SAMTEC_MTLW-102-07-L-D-250	CONNFLY ELECTRONIC CO.,LTD.(CONNFLY)	PLD-8
J11	1	Connector 2.54 2-pin	Jumper	COMATEL_385.0358.1.02.400	CONNFLY ELECTRONIC CO.,LTD.(CONNFLY)	PLS-2
J12	1	Connector 2.54 3x2-pin	ISP	SAMTEC_MTLW-103-07-L-D-250	CONNFLY ELECTRONIC CO.,LTD.(CONNFLY)	PLD-6
J13, J14	2	Connector 2.54 2x20-pin	Connector 2.54 2x20-pin	FCI_87606-320LF	CONNFLY ELECTRONIC CO.,LTD.(CONNFLY)	PBD-40
J15	1	CWF-2	CWF-2	CWF-2	CONNFLY ELECTRONIC CO.,LTD.(CONNFLY)	DS1069-2 M (CWF-2)
L1, L3, L4, L5, L6	5	BLM21PG221SN1D	220R@100MHz	INDC2012X105N	Murata Electronics Inc. (MUR)	BLM21PG221SN1D
L2	1 1	BLM41PG600SN1L	60R@100MHz	INDC4516X180N	Murata Electronics Inc. (MUR)	BLM41PG600SN1L
LD1, LD3		LED x2 Green 1C2A-BOT 3C4A-TOP	Color	LED_DIALIGHT_553-0122-200F	Dialight Corp.(DIALIGHT)	553-0122-200F
LD2	1	2x LED Botom Green, Top Red	Color	LED_DIALIGHT_553-0112-200F	Dialight Corp.(DIALIGHT)	553-0112-200F
					Infineon Technologies Ag (Siemens Semiconductors)	
Q1, Q2, Q3, Q4, Q5, Q6, Q7	7	N-ch 20V 4.2A 45mOhm	IRLML2502	SOT23	(INFIN)	IRLML2502GTRPBF
R1, R7	2	R_0805_4.7k_150V_125mW_1%	4.7k	RESC2012X60N	Yageo(YAG)	RC0805FR-074K7L
R2, R3, R4, R8, R9, R10, R11, R12, R13, R14, R15, R16, R22, R23, R24	15	R_0805_390R_150V_125mW_1%	390R	RESC2012X60N	Yageo(YAG)	RC0805FR-07390RL
R5, R6, R17, R18, R19, R20, R21, R25, R26, R27, R28	11	R_0805_10k_150V_125mW_1%	10k	RESC2012X60N	Yageo(YAG)	RC0805FR-0710KL
RL1, RL2, RL3, RL4	4	Miniature Relay for Signal Circuits	Value	REL_HK19F_DC5V	HUIKE	HK19F-DC5V-SHG
RPI1	1	GPIO Header for Raspberry Pi A+/B+/Pi 2/Pi 3 - 2x20	RPI GPIO Connector	3M_N2540-6002RB	SparkFun Electronics	PRT-14017
RPI2	1	RPI 2B Board	RPI 2B Board	RPi 2B Board	GENERIC	
T1	1	-30V -13A P-Channel PowerTrench MOSFET	FDS6679AZ	SOIC127P600X175-8N	On Semiconductor(ONS- FAIR)	FDS6679AZ
U1	1	Arduino_Pro_Micro	Arduino_Pro_Micro	Arduino_Pro_Micro		
VC1	1	USB Video Capture	USB Video Capture	USB_Video_Capture	GENERIC	
VC2	1	VGA_to_Composite	VGA_to_Composite	VGA_to_Composite	GENERIC	
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