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Friday, April 03, 2020 at 01:15:34 pm

Eeschema (5.1.4-0-10\_14)

Component Count:136

Ref	Qnty	Value	Part	Footprint
C1, C2, C5, C6, C7, C8, C9, C10, C11, C13, C14, C15, C16, C20, C20, C22, C24, C27, C29,		Value 0.1μF	Part  Device:C	Capacitors_SMD:C_0805_HandSoldering
C33, C34 C3,	2	47nF	Device:C	Capacitors_SMD:C_0805_HandSoldering
C32				
C4	1	0.1μF	Device:CP1_Small	Capacitors_SMD:C_0805_HandSoldering
C12	1	22μF	Device:CP	Capacitors_ThroughHole:CP_Radial_D5.0mm_P2.50mm
C21, C39, C40, C41	4	1μF	Device:C	Capacitors_SMD:C_0805_HandSoldering
C23, C26	2	33pF	Device:C_Small	Capacitors_SMD:C_0805_HandSoldering
C25	1	68pF	Device:C	Capacitors_SMD:C_0805_HandSoldering
C30, C31	2	100pF	Device:C	Capacitors_SMD:C_0805_HandSoldering
C35, C36, C37, C38	4	10nF	Device:C	Capacitors_SMD:C_0805_HandSoldering
D1	1	LED	Device:LED	LEDs:LED_D3.0mm
D2	1	50V 2A	Device:D_Schottky	Diodes_ThroughHole:D_DO-15_P10.16mm_Horizontal
D3, D4	2	1N4001	Diode:1N4001	Diodes_ThroughHole:D_DO-41_SOD81_P2.54mm_Vertical_AnodeUp
F2	1	2A	Device:Fuse_Small	0251002.MRT1L:0251002.MRT1L
FB1	1	Bead	Device:Ferrite_Bead_Small	Choke_SMD:Choke_SMD_1206_Handsoldering
J1	1	Cartridge Slot	Connector_Generic:Conn_02x15_Odd_Even	LeakyChips:Sullins_Cart_Slot
J2	1	Composite video	RCJ-017:RCJ-017	Jacks:CUI_RCJ-017
J3	1	PJ-102A	PJ-102A:PJ-102A	Jacks:CUI_PJ-102A
J4	1	RCJ-017	RCJ-017:RCJ-017	Jacks:CUI_RCJ-017
J5	1	Controller Port 1	Connector:DB9_Male	Connector_Dsub:DSUB- 9_Male_Horizontal_P2.77x2.84mm_EdgePinOffset4.94mm_Housed_MountingHolesOffset7.4
J6	1	Controller Port 2	Connector:DB9_Male	Connector_Dsub:DSUB- 9_Male_Horizontal_P2.77x2.84mm_EdgePinOffset4.94mm_Housed_MountingHolesOffset7.4
Q1	1	2n4401	Device:Q_NPN_Darlington_BCE	TO_SOT_Packages_THT:TO-92_Molded_Narrow
Q2	1	Q_NJFET_GSD	Device:Q_NJFET_GSD	TO_SOT_Packages_SMD:SOT-23_Handsoldering

	JL	JL	JL	JL
Q3	1	2N3906	Transistor_BJT:2N3906	TO_SOT_Packages_THT:TO-92_Inline_Narrow_Oval
Q4, Q5	2	2N3904	Transistor_BJT:2N3904	TO_SOT_Packages_THT:TO-92_Inline_Wide
R1, R11, R18, R21, R28, R29, R30	7	1kΩ	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R2, R3, R9, R10, R14, R19, R44	7	3.3kΩ	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R4	1	0Ω	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R5	1	470Ω	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R6	1	75Ω	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R7	1	150Ω	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R8, R45, R46	3	2kΩ	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R12	1	330Ω	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R13, R23, R24	3	10kΩ	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R15	1	4.7kΩ	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R16	1	91kΩ	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R17	1	1ΜΩ	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R20, R31, R32	3	22kΩ	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R22	1	180Ω	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R25	1	1.1kΩ	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R26, R38, R39	3	270Ω	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R27	1	47Ω	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R33, R34	2	1.8kΩ	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R35, R40, R41	3	1.5kΩ	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R36, R37	2	100kΩ	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
R42, R43	2	120Ω	Device:R_Small_US	Resistors_SMD:R_0805_HandSoldering
RN1, RN2	2	22kΩ	Device:R_Network07_US	Resistors_ThroughHole:R_Array_SIP8
SW1	1	Power Toggle	Switch:SW_Push	LeakyChips:PVA1_Switch
SW2	1	Reset	Switch:SW_Push	Buttons_Switches_ThroughHole:SW_PUSH_6mm
U1	1	PLCCZ80	LeadedSolder:PLCCZ80	Sockets:PLCC44
U2	1	Work RAM	LeakoChips:LC331632M-12	LeakyChips:SOIC-40-JLead
U3	1	BIOS ROM 27C256	Memory_EPROM:27C256	Housings_DIP:DIP-28_W15.24mm_Socket_LongPads
U4	1	74HCT04	74xx:74HCT04	Housings_SOIC:SOIC-14_3.9x8.7mm_Pitch1.27mm
U5	1	TMS9918A	LeakoChips:TMS9918A	Housings_DIP:DIP-40_W15.24mm_Socket_LongPads
U6, U7, U8	3	74LS574	74xx:74LS574	Housings_SOIC:SOIC-20W_7.5x12.8mm_Pitch1.27mm
U9	1	VRAM	LeakoChips:LC331632M-12	LeakyChips:SOIC-40-JLead
U10	1	SN76489AN	LeakoChips:SN76489AN	Housings_DIP:DIP-16_W7.62mm_Socket_LongPads
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U11	1	74LS04	74xx:74LS04	Housings_SOIC:SOIC-14_3.9x8.7mm_Pitch1.27mm
U12	1	74LS138 (Mem. Mapped)	74xx:74LS138	Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm
U13	1	74LS138 (I/O)	74xx:74LS138	Housings_SOIC:SOIC-16_3.9x9.9mm_Pitch1.27mm
U14	1	74LS02	74xx:74LS02	Housings_SOIC:SOIC-14_3.9x8.7mm_Pitch1.27mm
U15	1	Controller 1	74xx_IEEE:74LS541	Housings_SOIC:SOIC-20W_7.5x12.8mm_Pitch1.27mm
U16	1	Controller 2	74xx_IEEE:74LS541	Housings_SOIC:SOIC-20W_7.5x12.8mm_Pitch1.27mm
U17, U18	2	74LS05	74xx:74LS05	Housings_SOIC:SOIC-14_3.9x8.7mm_Pitch1.27mm
U20, U22	2	74LS74	74xx:74LS74	Housings_SOIC:SOIC-14_3.9x8.7mm_Pitch1.27mm
U23	1	74HCT00	74xx:74HCT00	Housings_SOIC:SOIC-14_3.9x8.7mm_Pitch1.27mm
U24	1	TPS60403DBVR	TPS60403DBVR:TPS60403DBVR	TO_SOT_Packages_SMD:SOT-23-5_HandSoldering
WJ4, WJ5	2	(normally open)	Device:Jumper	Jumper:SolderJumper-2_P1.3mm_Open_RoundedPad1.0x1.5mm
X1	1	14.31818MHz	Oscillator:CXO_DIP8	Oscillators:Oscillator_DIP-8_LargePads
Y1	1	10.738635MHZ	Device:Crystal	Crystals:Crystal_HC49-U_Vertical