ALPES MACHINES 2017
Matrix Ctrlr Kit Partlist

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CHECK	QTY	COMPONENT	VALUE	remarks	Id	PCB REF	SUPPLIER	SUPPLIER REF (MPN)	SKU	URL
	2	Diode_DO-35_SOD27_Horizontal_RM10	1N4148		2	D18,D35	Tayda	1N4148	A-157	https://www.taydaelectronics.com/1n4148-switching-signal-diode.html
	1	Diode_DO-41_SOD81_Horizontal_RM10	1N4001	alt. Part : 1N4007	40	D1	Tayda	1N4001	A-162	https://www.taydaelectronics.com/1n4001-diode-1a-50v.html
	29	LED_3mm_throughhole	LED	round LED	33	D34,D33,D32,D30,D29,D26,D25,D24,D23,D22,D21,D20,D19,D17,D16,D15,D14,D13,D12,D11,D10,D9,D8,D7,D6,D5,D4,D3,D2	Tayda	LED 3mm Red	A-261	https://www.taydaelectronics.com/leds/round-leds/3mm-leds/red/led-3mm-red.html
	2	Potentiometer_Bourns_3296W_3-8Zoll_Inline_Screw	1K	linear multiturns	30	LIGHT1,CTRST1	Tayda	1K OHM TRIMMER POTENTIOMETER CERMET 25 TURNS	A-585	https://www.taydaelectronics.com/potentiometer-variable-resistors/cermet-potentiometers/3296w/1k-ohm-trimmer-potentiometer-cermet-25-turns-3296w.html
	1	SW_PUSH_SMALL	SW_PUSH_Small	4x6x6mm	42	CPU_RESET1	Tayda	Tact Switch 6x6mm 5mm	A-5127	https://www.taydaelectronics.com/electromechanical/switches-key-pad/tact-switch/tact-switch-6x6mm-5mm-through-hole-spst-no.html
	1	TerminalBlock_Pheonix_MKDS1.5-2pol	2X1	rocker switch connector	41	P4	Tayda	DG128-02P	A-664	http://www.taydaelectronics.com/connectors-sockets/terminal-blocks/pcb-mount/dg128-screw-terminal-block-2-positions-5mm.html
	2	PJ-301BM_Vertical_Jack3.5Mono	PJ-301BM		31	J2,J1	Tayda	3.5mm Enclosed Socket	A-865	http://www.taydaelectronics.com/hardware/3-5mm-plugs-jacks/3-5mm-mono-enclosed-socket.html
	1	JACK_ALIM	DC9V		1	CON1	Tayda	DC Power Jack 2.1mm	A-4148	http://www.taydaelectronics.com/hardware/dc-power/dc-power-jack-2-1mm-barrel-type-pcb-mount.html
	13	Condensateur_MLCC_L5_W2.5_P2.5_P5	100n	footprint 2.54 or 5.08 mm	34	C14,C12,C11,C10,C9,C8,C7,C6,C5,C4,C3,C2,C1	Tayda	CT40805Y105M500	A-214	https://www.taydaelectronics.com/capacitors/monolithic-ceramic-capacitor/0-1uf-50v-multilayer-ceramic-capacitor.html
	1	C_Radial_D10_L13_P5	C/POLA	13x17mm 1000uF/25V	39	C13	Tayda	ATTC-1740	A-4523	http://www.taydaelectronics.com/capacitors/electrolytic-capacitors/1000uf-16v-105c-radial-electrolytic-capacitor-10x16mm.html
	29	Resistor_Horizontal_RM7mm	RLED	resistor 6K8 1% or 10K 5%	13	R89,R88,R87,R85,R84,R81,R80,R79,R78,R77,R76,R75,R74,R63,R62,R61,R60,R59,R58,R57,R56,R55,R54,R53,R52,R51,R50,R49,R48	Tayda	MF0W4FF6801A50	A-2328	http://www.taydaelectronics.com/resistors/1-4w-metal-film-resistors/6-8k-ohm-1-4w-1-metal-film-resistor.html
	2	Resistor_Horizontal_RM7mm	1K2	5%	14	R73,R64	Tayda	1.2K OHM 1/4W 5%	A-2125	http://www.taydaelectronics.com/10-x-resistor-1-2k-ohm-1-4w-5-carbon-film-pkg-of-10.html
	2	Resistor_Horizontal_RM7mm	5K6	1%	15	R72,R46	Tayda	5.6K OHM 1/4W 1% Metal Film Resistor	A-2351	http://www.taydaelectronics.com/resistors/1-4w-metal-film-resistors/5-6k-ohm-1-4w-1-metal-film-resistor.html
	12	Resistor_Horizontal_RM7mm	R220	5%	16	R71,R70,R67,R66,R65,R47,R45,R44,R43,R42,R41,R40	Tayda	220 OHM 1/4W 5%	A-2119	http://www.taydaelectronics.com/resistors/1-4w-carbon-film-resistors/10-x-resistor-220-ohm-1-4w-5-carbon-film-pkg-of-10.html
	2	Resistor_Horizontal_RM7mm	4K7	5%	17	R69,R68	Tayda	4.7K 4K7 OHM 1/4W 5%	A-2027	http://www.taydaelectronics.com/10-x-resistor-4-7k-4k7-ohm-1-4w-5-carbon-film-pkg-of-10.html
	37	Resistor_Horizontal_RM7mm	10K	5%	18	R37,R36,R35,R34,R33,R32,R31,R30,R29,R28,R27,R26,R25,R24,R23,R22,R21,R20,R19,R18,R17,R16,R15,R14,R13,R12,R11,R10,R9,R8,R7,R6,R5,R4,R3,R2,R1	Tayda	CFR0W4J0103A50	A-2115	http://www.taydaelectronics.com/resistors/1-4w-carbon-film-resistors/10-x-resistor-10k-ohm-1-4w-5-carbon-film-pkg-of-10.html
	1	MIDI DIN5 PCB Connector	MIDI IN CORE		20	P11	Tayda	TEDIN-D501	A-1010	http://www.taydaelectronics.com/5-pin-midi-connector-female-right-angle.html
	1	MIDI DIN5 PCB Connector	MIDI OUT CORE		21	P10	Tayda	TEDIN-D501	A-1010	http://www.taydaelectronics.com/5-pin-midi-connector-female-right-angle.html
	1	MIDI DIN5 PCB Connector	MIDI OUT D		22	P9	Tayda	TEDIN-D501	A-1010	http://www.taydaelectronics.com/5-pin-midi-connector-female-right-angle.html
	1	MIDI DIN5 PCB Connector	MIDI OUT C		23	P8	Tayda	TEDIN-D501	A-1010	http://www.taydaelectronics.com/5-pin-midi-connector-female-right-angle.html
	1	MIDI DIN5 PCB Connector	MIDI IN A		24	P7	Tayda	TEDIN-D501	A-1010	http://www.taydaelectronics.com/5-pin-midi-connector-female-right-angle.html
	1	MIDI DIN5 PCB Connector	MIDI OUT A		25	P6	Tayda	TEDIN-D501	A-1010	http://www.taydaelectronics.com/5-pin-midi-connector-female-right-angle.html
	1	MIDI DIN5 PCB Connector	MIDI OUT B		26	P5	Tayda	TEDIN-D501	A-1010	http://www.taydaelectronics.com/5-pin-midi-connector-female-right-angle.html
	4	DIP-16_W7.62mm_LongPads	CD4051	analog muxer	37	MUX3,MUX2,MUX1,MUX4	Tayda	CD4051BE	A-495	http://www.taydaelectronics.com/cd4051-4051-ic-cmos-multiplex-demultiplexer.html
	4	DIP-16_W7.62mm_LongPads	74LS165	serial out shift register	38	U1,U2,U3,U4	Tayda	SN74HC165N	A-639	http://www.taydaelectronics.com/74hc165-74165-ic-8-bit-shift-register.html
	4	DIP-16_W7.62mm_LongPads	74LS595	serial in shift register	36	U9,U6,U5,U8	Tayda	74HC595N	A-251	http://www.taydaelectronics.com/74hc595-8-bit-shift-register-ic.html
	2	DIP-8_W7.62mm	6N138	alternative : 6N137	47	U7,U12	Tayda	6N137_NL	A-871	http://www.taydaelectronics.com/6n137-high-speed-logic-gate-optocouples-ic.html
	1	wire AWG24	wire 30cm	wire AWG24	56	enclosure	Tayda	PIT-4876	A-4979	http://www.taydaelectronics.com/awg-24-red-hook-up-wire-1ft-30cm-stranded.html
	1	rocker switch	250V 1A DPST	power switch	57	enclosure	Tayda	Rocker Switch ON/OFF DPST 6A 250VAC	A-5091	http://www.taydaelectronics.com/rocker-switch-black-on-off-dpst-6a-250vac-panel-mount-snap-in.html
	1	Pinheader straight 2x40	arduino pin connectors	to cut		external	Tayda	2x40 Pin Header Strip	A-198	http://www.taydaelectronics.com/connectors-sockets/pin-headers/2x40-pin-2-54-mm-double-row-pin-header-strip.html
	1	Pinheader straight 1x 40	arduino pin connectors	to cut		external	Tayda	40 Pin Header Strip	A-197	http://www.taydaelectronics.com/connectors-sockets/pin-headers/40-pin-2-54-mm-single-row-pin-header-strip.html
	12	DIP16 socket	socket	optional		MUX3,MUX2,MUX1,MUX4, U1,U2,U3,U4, U9,U6,U5,U8	Tayda	16 pin DIP IC Socket	A-003	http://www.taydaelectronics.com/16-pin-dip-ic-socket-adaptor-solder-type.html
	6	DIP8 socket	socket	optional		U7,U12,EEPROM0,EEPROM1,EEPROM2,EEPROM3	Tayda	8 pin DIP IC Socket	A-001	http://www.taydaelectronics.com/8-pin-dip-ic-socket-adaptor-solder-type.html
	4	Dupont wires	1 lot	wires with female connector		option	Tayda	TYA-2374	A-2374	http://www.taydaelectronics.com/premium-jumper-wires-female-female-200mm-pack-of-40.html
	1	jumper	jumper 2.54mm	pin jumper		option	Tayda	TYMJ2MH	A-1324	https://www.taydaelectronics.com/mini-jumper-2-54mm-gold-plated-closed-cover.html
	2	zener diode	1N4733	5,1V Zener		ZD1, ZD2	Tayda	1N4733A	A-169	http://www.taydaelectronics.com/1n4733-zener-diode-1w-5-1v.html
	2	Resistor_Horizontal_RM7mm	1K 5%	resistor 1K CV		R38, R82	Tayda	CFR0W4J0102A50	A-3772	https://www.taydaelectronics.com/10-x-resistor-1k-ohm-1-4w-5-carbon-film-pkg-of-10.html
	2	Resistor_Horizontal_RM7mm	10K 5%	resistor 10K CV		R39, R83	Tayda	CFR0W4J0103A50	A-2115	http://www.taydaelectronics.com/10-x-resistor-10k-ohm-1-4w-5-carbon-film-pkg-of-10.html
	2	NPN - CBE	2N3904	NPN general purpose transistor		Q1, Q2	Tayda	2N3904	A-111	https://www.taydaelectronics.com/2n3904-npn-general-propose-transistor.html
	1	Pin_Header_Straight_2x20	IDC 2X20	must solder !	28	P2	Tayda	BHD40PHZT	A-2976	http://www.taydaelectronics.com/connectors-sockets/box-header-connectors/40-pin-box-header-connector-2-54mm.html
	1	Pin_Header_Straight_2x10	CONN_02X10	must solder !	27	P3	Tayda	BHD20PHZT	A-2960	http://www.taydaelectronics.com/connectors-sockets/box-header-connectors/20-pin-box-header-connector-2-54mm.html
	1	Pin_Header_Straight_2x05	IDC 2X5	optional	29	OPTION1	none			
	1	Pin_Header_Straight_2x05	CONN_02X05	optional	9	OPTION2	none			
	1	IDC_Header_Straight_20pins	CONN_02X10	extension connector	10	P12	Tayda	BHD20PHZT	A-2960	http://www.taydaelectronics.com/connectors-sockets/box-header-connectors/20-pin-box-header-connector-2-54mm.html
		Pin_Header_Straight_2x04	CONN_02X04	Jumper solder blob	43	JP_SDCARD1	none			
		Pin_Header_Straight_1x02	CONN_01X02	Jumper trace (cut)	45	JP_TX4,JP_TX5	none			
			CONN_01X02	Jumper solder blob		P15	none			
	29	SW_PUSH-12mm	SW_PUSH	12x12x14mm	3	SW15,SW1,SW2,SW3,SW4,SW5,SW6,SW7,SW8,SW11,SW12,SW13,SW14,SW17,SW18,SW19,SW20,SW21,SW22,SW23,SW24,SW25,SW26,SW27,SW28,SW29,SW30,SW31,SW32	ALPES			
	32	trimmer_alps-rk09k1130ah1	10K linear		12	RV32,RV31,RV30,RV29,RV28,RV27,RV26,RV25,RV24,RV23,RV22,RV21,RV20,RV19,RV18,RV17,RV16,RV15,RV14,RV13,RV12,RV11,RV10,RV9,RV8,RV7,RV6,RV5,RV4,RV3,RV2,RV1	ALPES			
	1	PEC11-Switch	ENC SW EC11	encoder w/ switch	44	ENC1	ALPES			
	1	MCU	Geeetech iDuino Mega	Arduino Mega clone	11	SHIELD1	ALPES			
	1	LCD_ERM2002-1	LCD_2002	height 13mm max	48	P1	ALPES			
	4	DIP-8_W7.62mm	24C512	Microchip 24LC512	46	EEPROM0,EEPROM1,EEPROM2,EEPROM3	ALPES			
	1	Power supply	100-250VAC/9VDC 1A	EU Plug	58	n/a	ALPES			
	32	KNOB Potentiometer	6x13x14 mm	knurled T18	51	n/a	ALPES			
	1	KNOB Encoder	15x25mm	knurled T18	52	n/a	ALPES			
	1	Matrix Ctrlr PCB rev 1.1a	Alpes Machines PCB	PCB	53	rev1.3	ALPES			
	1	frontapnel	19" x 3U	metal	54	enclosure	ALPES			
	1	lexan	V200 UV	Polyester	55	enclosure	ALPES			
	1	back enclosure	aluminium 1mm	metal		enclosure	ALPES			
	1	logo panel	aluminium 1mm	metal		enclosure	ALPES			
	4	metal square	aluminium 50x18x1mm	metal		enclosure	ALPES			
	2	sub D25 cap	aluminium 50x18x1mm	metal		enclosure	ALPES			
	20	MountingHole_3-5mm	M3 x 6mm Philips	screws	32	HOLE20,HOLE19,HOLE18,HOLE17,HOLE16,HOLE15,HOLE14,HOLE13,HOLE12,HOLE11,HOLE10,HOLE9,HOLE8,HOLE7,HOLE6,HOLE5,HOLE4,HOLE3,HOLE2,HOLE1	ALPES			
	20	Countersink screw M3x5mm	M3 x 5mm Countersunk	countersunk screws		to insert in Frontpanel countersink holes	ALPES			
	20	M3 11mm standoffs	Brass spacer				ALPES			
	8	M3 20+6mm F/M	Black Spacer		50		ALPES			
	8	rivet M3 (3.3x10mm)	M3 (3.2x8mm)	screws			ALPES			
	4	small M3 screw metal	M3 (2.5x6mm)	screws			ALPES			
	1	keychain	steel 2mm	metal		marketing	ALPES			