SW300 R5
TP1 C1
R2

SW301 R6
TP2 C2
R3

SW302 R7
TP3 C3
R4

FRONT PANEL

5
ON/OFF

13
USR BTN

26
USR BTN

LD200 LD201 LD301 LD300

R206 R205 R208 R207 R12 R13 R10 R11

J12

C4

ON 12v 6 27
5v 12v 22 4

R9
R8
J17
J6 J4 J2 J1
Q1
J3

CAUTION
SOLDER ONLY
ONE JUMPER
IN GROUP

CPU FAN CONFIG

J4 - FAN PWM PIN
J5 - VCC PWM (3 pin)
J1 - 12v   J2 - 5v

CPU FAN
GPIO18

J14   J13

MOSI MISO SCLK GND   3v3 5v CS0 CS1

SPI 0

BUZZER
GPIO 17

LS 1

Ariadna
MODULAR SYSTEM

VCC SDA SCL GND
IIC

J8 —5v— J9
J6 —3v3— J7
VOLTAGE SEL

J11
UART
VCC TX RX GND

J100

+

+

Line #	Name	Description	Designator	Revision ID	Revision State	Revision Status	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	100n	CAP CER 0.1UF 50V X7R 0603	C1, C2, C3, C8, C200, C204, C205		Unknown server		7	KEMET	C0603C104K5RACTU	Volume Production				
	Capacitor 10 pF +/- 0.25 pF 50 V 0402	Chip Capacitor, 10 pF, +/- 0.25 pF, 50 V, 0402 (1005 Metric)	C4		Unknown server		1							
	10uF	CAP ALUM 10UF 20% 35V SMD	C5, C6, C7		Unknown server		3	Panasonic	EEE-1VA100SR	Not Recommended for New Design				
	330uF 35v	Aluminum Electrolytic Capacitor, 330 uF, 35 V, -55 to 105 degC, 2-Pin CAPAE, RoHS, Tape and Reel	C201, C202		Unknown server		2	Panasonic	EEE-FK1V331P	Volume Production				
	SS32	SS32 Rectifier Diode, Schottky, 1 Phase, 1 Element, 3A, 20V V(RRM), Silicon, DO-214AB	D200, D201		Unknown server		2	ON Semiconductor / Fairchild	SS32	Volume Production				
	Green LED	LED GREEN DIFFUSED 0603 SMD	D202, D203, D204		Unknown server		3	Broadcom Avago	HSME-C191					
	6A		F200		Unknown server		1	Littelfuse	0466.750NR	Volume Production				
	JUMPER	JUMPER	J1, J2, J4, J5, J6, J7, J8, J9, J17		Unknown server		9							
	22232041	Conn Wire to Board HDR 4 POS 2.54mm Solder ST Top Entry Thru-Hole KK®Bag	J3, J10, J11, J13, J14		Not managed		5							
	A-USBSB	Connector Receptacle, USB Type B, Right Angle, -20 to 85 degC, 4-Pin THD, RoHS, Tray	J12		Unknown server		1	Assmann	A-USBSB	Volume Production				
	09 03 164 6921	CONN DIN HDR 96POS PCB RA	J100		Unknown server		1	HARTING Technology	09031646921	Volume Production				
	47uH 12mm	Inductor: wire; 22uH; 4.7A; 0.036Ω; SMD; 12x12x8mm; ±20	L200		Not managed		1							
			LD200, LD201, LD300, LD301		Not managed		4							
	CEM-1205C	12 mm, 5 V, 85 dB, Through Hole, Sealed, Driving Circuit, Magnetic Audio Indicator Buzzer	LS		Not managed		1							
	0022272021	Connector Header Through Hole 2 position 0.100 (2.54mm)	P1		Not managed		1							
	AO3400A	MOSFET N-CH 30V 5.7A SOT23	Q1		Unknown server		1	Alpha & Omega Semiconductor	AO3400A	Volume Production				
	100R, 1k	0.1W 1% 0603 (1608 Metric) SMD, 0.1W 5% 0603 (1608 Metric) SMD	R1, R8		Unknown server		2	Bourns	CR0603-JW-202ELF	Volume Production				
	10k	RES 10K OHM 1% 1/10W 0603	R2, R3, R4, R9, R200		Unknown server		5	Yageo	RC0603FR-0710KL	Volume Production				
	100R		R5, R6, R7		Unknown server		3	Yageo	RC0603FR-07100RL	Volume Production				
	470R	General Purpose Chip Resistor, 470 Ohm, +/- 1%, -55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	R10, R11, R12, R13, R206		Unknown server		5	Yageo	RC0603FR-07470RL	Volume Production				
	1k	RES SMD 1K OHM 0.1% 1/10W 0603	R14, R15		Unknown server		2	Panasonic	ERA-3AEB102V	Volume Production				
	3k3		R201		Unknown server		1	Bourns	CR0603-FX-3301ELF	Volume Production				
	680R	RES Thick Film, 680Ω, 1%, 0.1W, 100ppm/°C, 0603	R202, R203, R204, R207, R208		Unknown server		5	Vishay	CRCW0603680RFKEA	Volume Production				
	220R	General Purpose Chip Resistors, 220 Ohm, +/- 1%, -55 to 155 degC, 0603 (1608 Metric), RoHS, Tape and Reel	R205		Unknown server		1	Yageo	RC0603FR-07220RL	Volume Production				
	Rbias		Rb1, Rb2		Unknown server		2	Vishay	CRCW040210R0FKED	Volume Production				
	RPI GPIO Connector	GPIO Header for Raspberry Pi A+/B+/Pi 2/Pi 3 - 2x20	RPI1		Not managed		1	SparkFun	PRT-14017		Digi-Key	1568-1462-ND		
	B3F-3122	SWITCH TACTILE SPST-NO 0.05A 24V	SW300, SW301, SW302		Unknown server		3	Omron	B3F-3122	Volume Production				
	IP4220CZ6,125	Dual USB 2.0 integrated ESD protection, 0 to 5.5 V, -40 to 85 degC, 6-Pin TSOP (SOT457), RoHS, Tape and Reel	U1		Unknown server		1	NXP Semiconductors	IP4220CZ6125					
	TDA7052AT/N2,118	1 W BTL mono audio amplifier with DC volume control	U2		Not managed		1							
	XL4015	5A 180KHz 36V Buck DC to DC Converter	U200		Not managed		1							
	1503_09	1503 - Lumberg 3.5mm Right Angle Jack Chassis Socket	X		Not managed		1							