

Description	Comment	Designator	Footprint	LibRef	Quantity
Capacitor Electro	470uF/10V	C1	CAP3.5/8		1
Capacitor Ceramic	0.1uF	C2, C6, C7, C8, C9, C10, C11, C12, C13, C15, C16	0603	50V/X7R	11
Capacitor Electro	10uF/6.3V_LOWESR	C3	CSMD Φ 4		1
Capacitor Ceramic	33pF	C4, C5	0603	50V/X7R	2
Diode	1N4004	D1	SMA_DO-214AC		1
HEADER 8X2	HEADER 8X2	J1	IDC16	Dual row 2X8 pin, without Pin 4	1
HEADER 8X2	HEADER 8X2	J2	IDC16	Dual row 2X8 pin	1
Ferrite bead	60 Ohm @ 100MHz >0.7A	L1	0805	BMB2A0060LN2	1
Resistor	100R	R1, R3, R6, R8, R10, R20	0603	1/16W	5
Resistor	2.32K/1%	R2	0603	1/16W	1
Resistor	0R	R4	0603	1/16W	1
Resistor	10K	R5, R13, R14, R17, R18, R21	0603	1/16W	6
Resistor	49R9	R7, R9, R11, R12	0603	1/16W	4
Resistor	180R	R15, R16	0805	1/8W	2
Resistor	1K	R19	0603	1/16W	1
RJ-45 Connector with Magnetics	J0011D01BNL	RJ45	J0011D01BNL	HanRun HR961142A	1
Ethernet Controller	ENC28J60	U1	QFN-P28_N	ENC28J60	1
256K SPI Bus Serial EEPROM	25LC256	U2	SO-8	25LC256	1
Crystal	25MHz	Y1	XTAL2	CRYSTAL	1

Description	Comment	Designator	Part Number/Supplier	Footprint	Quantity
Crystal	3.579545MHz	Y1	CRYSTAL± 20ppm	XTAL2	1
8-Bit CMOS Microcontrollers With A/D Converter	PIC18F24K22	U10	PIC18F24K22-I/MV	UQFN-28	1
Comparator	LM393	U1	LM393PWR	tssop-8	1
AMP	LMV358	U2	LMV358IPW	tssop-8	1
1.2V To 37V Voltage Regulator	LM317_V	U8	(LM317MDCYR)	SOT-223	1
NPN Transistor	BC817-40	Q1, Q2, Q3		SOT23-CBE_L	3
Optoisolator	HMHA2801	U4, U5, U6, U7		SOP-4	4
DTMF decode	HT9172	U11		SOL-18	1
Diode Bridge	MB4S	D5, D8		SOIC4(MBS)	2
Diode	1N4148	D3		SOD-323_N	1
Zener Diode	A	D6, D9	MMSZ4698T1	SOD-123_N	2
Zener Diode	20V/0.5W	D17		SOD-80C	1
power chip	L78L05_SO-8	U3		SO-8	1
Zener Diode	SMBJ300CA	D2		SMB_DO-214AA_N	1
Diode	1N4004	D1, D10, D12		SMA_DO-214AC_M	3
RJ12	RJ12 4/6	J2		RJ12P6C4-V	1
RJ11	RJ11 4/4	J1		RJ11P4C4-V	1
Resistor	27R	R30	1/4W	RESC2012N	1
Resistor	2K	R15	1/8W	RESC2012N	1
Resistor	39R	R17, R24	1/4W	RESC2012N	2
Resistor	6.2M/300V	R2, R13	1/8W RHM6.20MAHCT	RESC2012N	2
Resistor	6.2M/300V	R19, R23	1/8W RHM6.20MAHCT	RESC2012M	2
Resistor	1.8K	R42	1/16W	RESC1608N	1
Resistor	100K	R45	1/16W	RESC1608N	9
Resistor	10K	R7, R12, R20, R29	1/16W	RESC1608N	4
Resistor	150K	R10	1/16W	RESC1608N	1
Resistor	1K/1%	R31	1/16W	RESC1608N	1
Resistor	200K	R35, R41, R43	1/16W	RESC1608N	3
Resistor	220R	R39	1/16W	RESC1608N	1
Resistor	24K/1%	R27	1/16W	RESC1608N	1
Resistor	2K	R5, R18, R21, R25, R32, R48, R50	1/16W	RESC1608N	7
Resistor	3.6K	R14	1/16W	RESC1608N	1
Resistor	33K	R38	1/16W	RESC1608N	1
Resistor	3K	R26, R28, R44	1/16W	RESC1608N	3
Resistor	4.7K	R1, R16	1/16W	RESC1608N	2
Resistor	470K	R8, R22	1/16W	RESC1608N	2
Resistor	820R	R36	1/16W	RESC1608N	1
Relay	HONGFA HFD3/12	K1, K2	HONGFA HFD3/12		2
Fuse	PTC_300mA	F1		RAD0.2	1
1.2MHz Boost Regulator	MIC2605	U9		MLF-8	1
Inductor	22uH/0.9A	L2		L_5*5	1
LED SMT	GREEN	D4, D11, D15, D18		LED0805	4
LED SMT	RED	D13, D14, D16		LED0805	3
Connector	CON6	J5	Head_2X3_SMT with Jumper	Head_2X3_SMT	1
Fuse	1.25A/600V	F2			1
Capacitor	0.1uF/50V	C11, C16	50V	CAPC2012N	2
Ferrite Inductor	10uH/200mA	L1	>200mA MLZ2012M100WT	CAPC2012N	1
Capacitor	2.2uF/50V	C19, C21, C37	50V	CAPC2012N	3
Capacitor	0.15uF	C29	50V	CAPC1608N	1
Capacitor	0.1uF	C1, C2, C3, C4, C5, C6, C7, C8, C9, C15, C20	50V	CAPC1608N	19
		C23, C24, C25, C26, C28, C30, C38, C39			
Capacitor	20pF	C17, C31, C33, C35	50V	CAPC1608N	4
Capacitor	470pF	C13, C32, C34	50V	CAPC1608N	3
Capacitor	22nF	C12, C14, C18	50V	CAPC1608N	3

Electrolytic Capacitor	100uF/16V	C10		CAP2.5/6.3*11	1
Electrolytic Capacitor	100uF/25V	C22, C36		CAP2.5/6.3*12	2
Electrolytic Capacitor	22uF/50V	C27		CAP2/5*11	1
Connector	CON4	J4		B4BVH	1
Connector	CON3	J3		B3BVH	1
Plastics Box					1
CB-1001			3 pin cable		1
CB-1002			4 core security cable		1
CB-1005			telephone cable RJ45 8/8 --RJ12 6/4		1
CB-1006			telephone cable RJ45 8/8 --RJ11 4/4		1