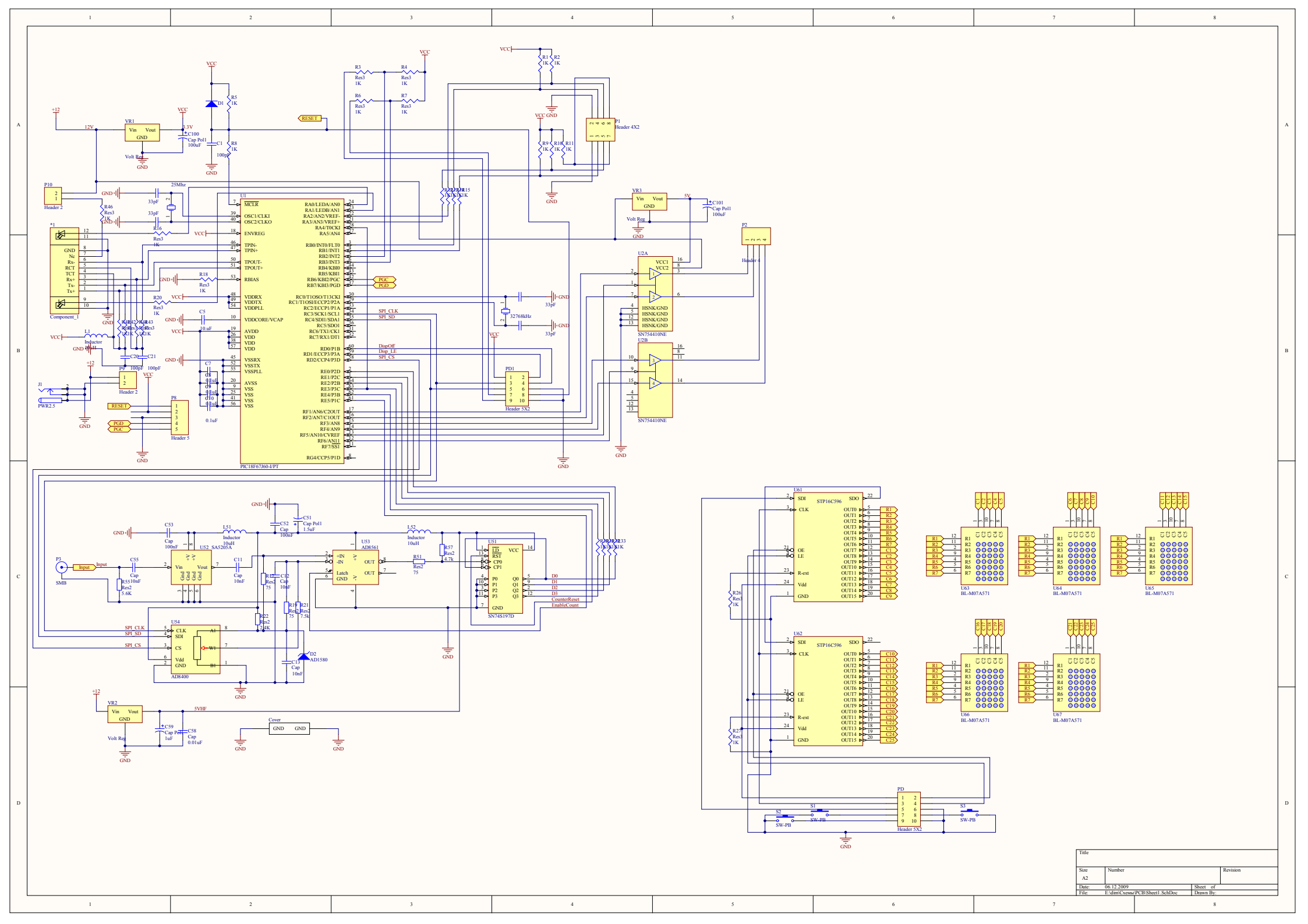
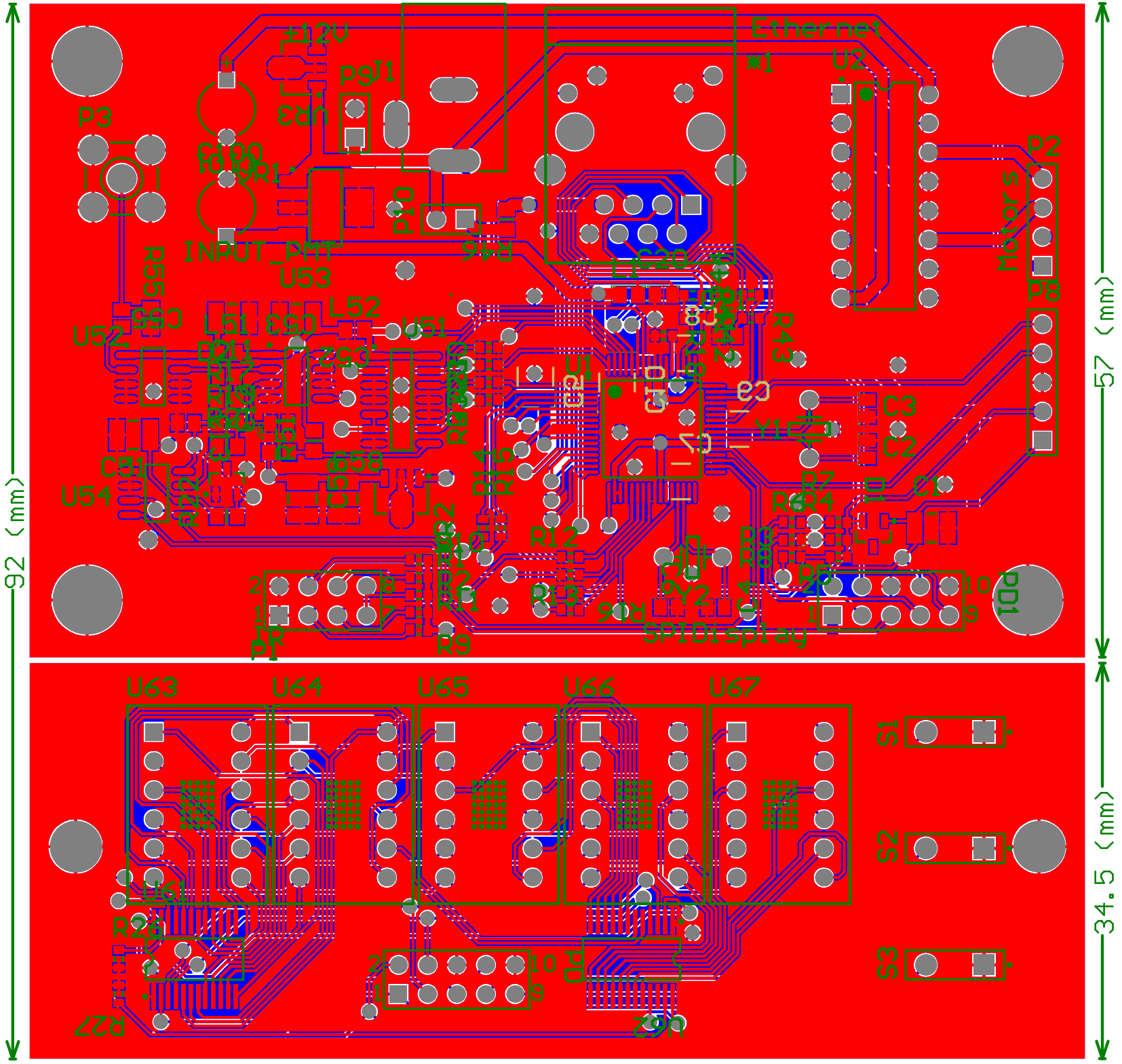


PIC18F67J60-I/PT
U1
MCLR
OSC1/CLKI
OSC2/CLKO
ENVREG
TPIN-
TPIN+
TPOUT-
TPOUT+
RBIAS
VDDRX
VDDTX
VDDPLL
VDDCORE/VCAP
AVDD
VDD
VSSRX
VSSTX
VSSPLL
AVSS
VSS
RA0/LEDA/AN0
RA1/LEDB/AN1
RA2/AN2/VREF-
RA3/AN3/VREF+
RA4/T0CKI
RA5/AN4
RB0/INT0/FLT0
RB1/INT1
RB2/INT2
RB3/INT3
RB4/KBI0
RB5/KBI1
RB6/KBI2/PGC
RB7/KBI3/PGD
RC0/T1OSO/T13CKI
RC1/T1OSI/ECCP2/P2A
RC2/ECCP1/P1A
RC3/SCK1/SCL1
RC4/SDI1/SDA1
RC5/SDO1
RC6/TX1/CK1
RC7/RX1/DT1
RD0/P1B
RD1/ECCP3/P3A
RD2/CCP4/P3D
RE0/P2D
RE1/P2C
RE2/P2B
RE3/P3C
RE4/P3B
RE5/P1C
RF1/AN6/C2OUT
RF2/AN7/C1OUT
RF3/AN8
RF4/AN9
RF5/AN10/CVREF
RF6/AN11
RF7/SS1
RG4/CCP5/P1D
VR1
Vin
Vout
GND
Volt Reg
12V
3.3V
C100
Cap Pol1
100uF
D1
C1
100pF
R5
1K
R8
1K
RESET
R3
Res3
1K
R4
R6
R7
R1
R2
R9
R10
R11
P1
Header 4X2
P10
Header 2
25Mhz
33pF
R46
R16
R18
R20
C5
10.uF
C7
0.1uF
C20
C21
100pF
L1
Inductor
P9
Header 2
J1
PWR2.5
P8
Header 5
PGC
PGD
SPI_CLK
SPI_SD
DispOff
Disp_LE
SPI_CS
32768kHz
PD1
Header 5X2
VR3
5V
C101
Cap Pol1
100uF
P2
Header 4
U2A
VCC1
VCC2
HSNK/GND
SN754410NE
U2B
SN754410NE
U61
STP16C596
SDI
CLK
OE
LE
R-ext
Vdd
SDO
OUT0
OUT1
OUT2
OUT3
OUT4
OUT5
OUT6
OUT7
OUT8
OUT9
OUT10
OUT11
OUT12
OUT13
OUT14
OUT15
R26
Res3
1K
R27
Res3
1K
U62
STP16C596
U63
BL-M07A571
U64
BL-M07A571
U65
BL-M07A571
U66
BL-M07A571
U67
BL-M07A571
PD
Header 5X2
S1
S2
S3
SW-PB
P3
SMB
Input
C53
Cap
100nF
L51
Inductor
10uH
C52
Cap
100nF
C51
Cap Pol1
1.5uF
U52
SA5205A
C55
Cap
10nF
R55
Res2
5.6K
C11
Cap
10nF
U53
AD8561
+IN
-IN
Latch
OUT
R51
Res2
75
R57
Res2
4.7k
L52
Inductor
10uH
R12
Res2
75
C12
Cap
10nF
R19
Res2
75
R21
Res2
7.5k
R22
Res2
2.4K
U51
SN74S197D
D0
D1
D2
D3
CounterReset
EnableCount
U54
AD8400
SPI_CLK
SPI_SD
SPI_CS
D2
AD1580
C13
Cap
10nF
VR2
5VHF
C59
Cap Pol1
1uF
C58
Cap
0.01uF
Cover
Title
Size
A2
Number
Revision
Date:
06.12.2009
Sheet of
File:
E:\dim\Схема\PCB\Sheet1.SchDoc
Drawn By:


92 (mm)
57 (mm)
34.5 (mm)
+12V
P3
P2
Motors
INPUT_PWR
U53
U52
U51
L52
L51
U54
U1
U2
Ethernet
X1
C3
C2
C1
R43
R44
R45
R46
R47
R48
R49
R50
R51
R52
R53
R54
R55
R56
R57
R58
R59
R60
R61
R62
R63
R64
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R66
R67
R68
R69
R70
R71
R72
R73
R74
R75
R76
R77
R78
R79
R80
R81
R82

Bill of Materials

<Parameter Title not found>

Source Data From: PCB_Project1.PrjPCB
Project: PCB_Project1.PrjPCB
Variant: None

Creation Date: 06.12.2009 20:16:51
Print Date: 40153 40153,84512

Footprint	Comment	LibRef	Designator	Description	Quantity
EthernetCON	Component_1	Component_1	*1		1
CAPC3225N	Cap	Cap	C1, C52, C53, C58	Capacitor	4
CAPC2012L	Cap	Cap	C2, C3, C4, C6, C11, C12, C13, C55	Capacitor	8
CAPC4532L	Cap	Cap	C5, C7, C8, C9, C10	Capacitor	5
CAPC2512L	Cap	Cap	C20, C21	Capacitor	2
CAPC3225N	Cap Pol1	Cap Pol1	C51, C59	Polarized Capacitor (Radial)	2
CAPPR5-5x5	Cap Pol1	Cap Pol1	C100, C101	Polarized Capacitor (Radial)	2
Cover	Cover	Component_1	Cover		1
SOT95P240-3N	Diode	Diode	D1	Default Diode	1
SOT95P240-3N	AD1580	D Zener	D2	Zener Diode	1
KLD-0202	PWR2.5	PWR2.5	J1	Low Voltage Power Supply Connector	1
INDC2012L	Inductor	Inductor	L1, L51, L52	Inductor	3
HDR2X4	Header 4X2	Header 4X2	P1	Header, 4-Pin, Dual row	1
HDR1X4	Header 4	Header 4	P2	Header, 4-Pin	1
SMB_V-RJ45	SMB	SMB	P3	SMB Straight Connector	1
HDR1X5	Header 5	Header 5	P8	Header, 5-Pin	1
HDR1X2	Header 2	Header 2	P9, P10	Header, 2-Pin	2
HDR2X5	Header 5X2	Header 5X2	PD, PD1	Header, 5-Pin, Dual row	2
RESC1608L	Res3	Res3	R1, R2, R3, R4, R5, R6, R7, R8, R9, R1(R11, R12, R13, R14, R15, R16, R18, R2(R26, R27, R30, R31, R32, R33, R41, R4: R43, R44, R46	Resistor	29
RESC2012N	Res2	Res2	R17, R19, R21, R22, R51, R55, R57	Resistor	7
SPST-2	SW-PB	SW-PB	S1, S2, S3	Switch	3
TQFP-PT64_N	PIC18F67J60-I/PT	PIC18F67J60-I/PT	U1	High Performance, 1-Mbit Flash Microcontroller with Ethernet, 128K Flash, 64-Pin TQFP, Industrial Temperature Rar	1
NE016D014_N	SN754410NE	SN754410NE	U2	Quadruple Half-H Driver	1
	SN74S197D	SN74S197D	U51	100-MHz Presettable Decade or Binary Counter / Latch	1
SOIC127P600-8L	SA5205A	SA5205A	U52	Wide-band high-frequency amplifier	1
SOIC127P600-8L	AD8561	AD8561	U53	Ultrafast 7 ns Single Supply Comparator	1
SOIC127P600-8L	AD8400	AD8400	U54	Digital Potentiometers	1
DB024	STP16C596	STP16C596	U61, U62		2
LED matrix 7x5	BL-M07A571	BL-M07A571	U63, U64, U65, U66, U67		5
SOT223-4N	Volt Reg	Volt Reg	VR1	Voltage Regulator	1
SOT89N	Volt Reg	Volt Reg	VR2, VR3	Voltage Regulator	2
Quartz	XTAL	XTAL	Y1	Crystal Oscillator	1
Quartz	Z	XTAL	Y2	32768 kHz	1
					96

Approved **Notes**