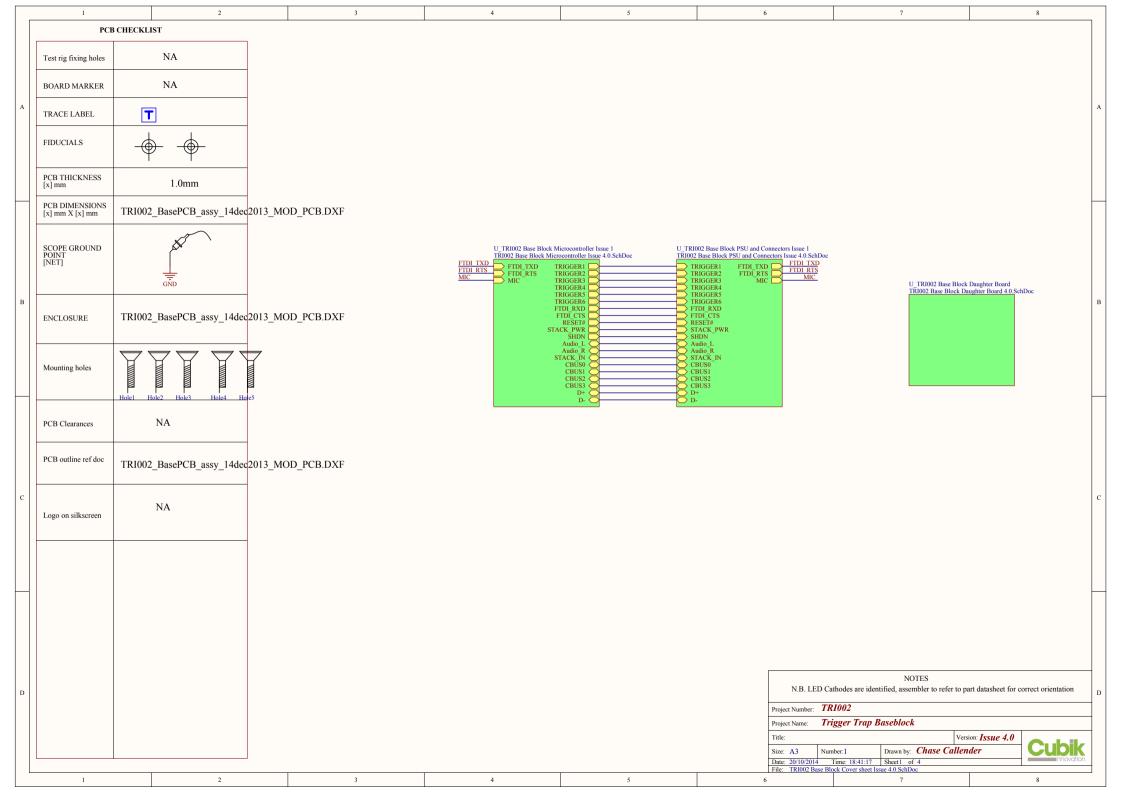


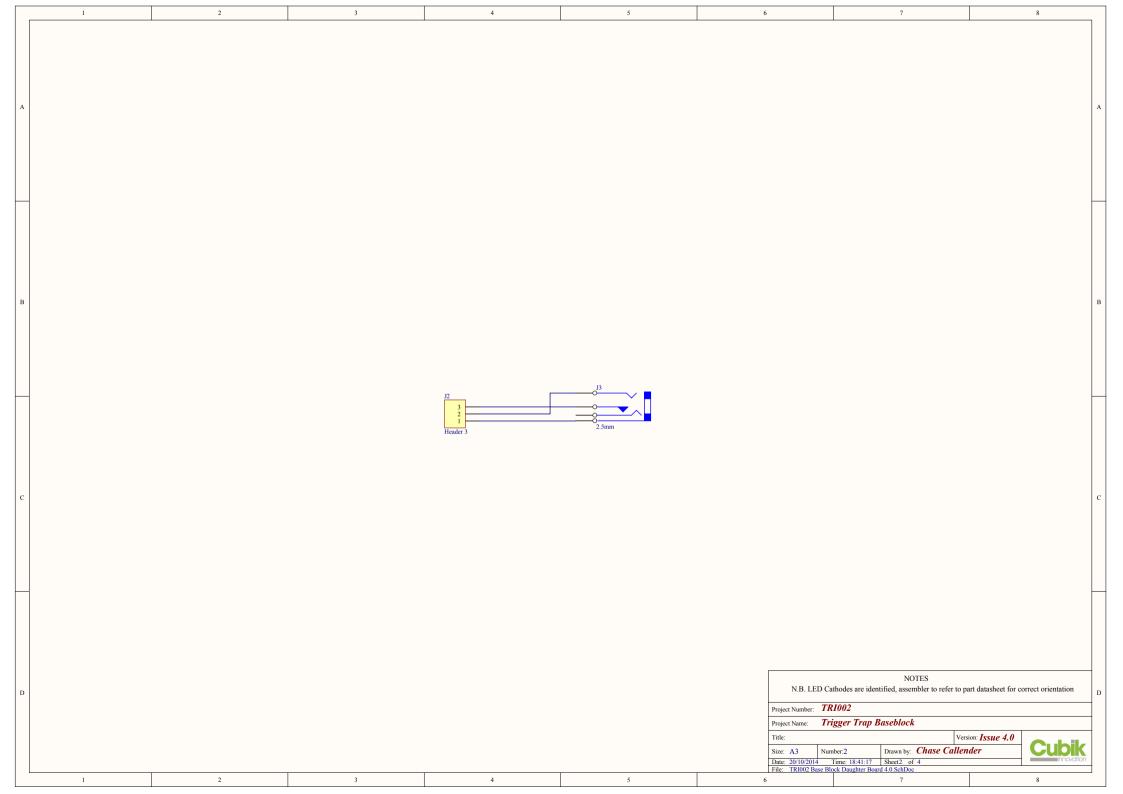
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Project Number	TRI002
Project File Name	TRI002 Base Unit Issue 4.0.PrjPcb
Project Full Path	G:\Active\Projects\TRI002\TRI002-BaseBlock\Issue 4.0\TRI002 Base U
Variant Name	Var1 of TRI002 Base Unit Issue 4.0

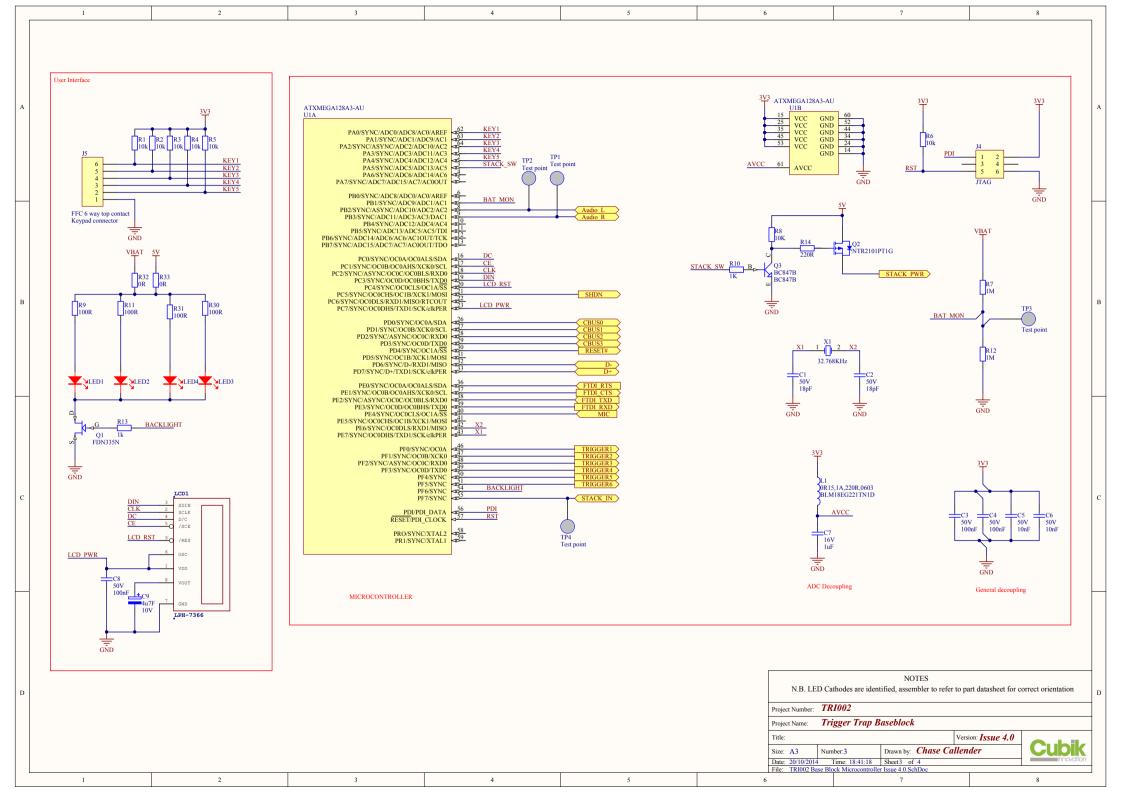
Schematic	
Schematic drawn by	Chase Callender
Schematic/BOM Version	Issue 4.0

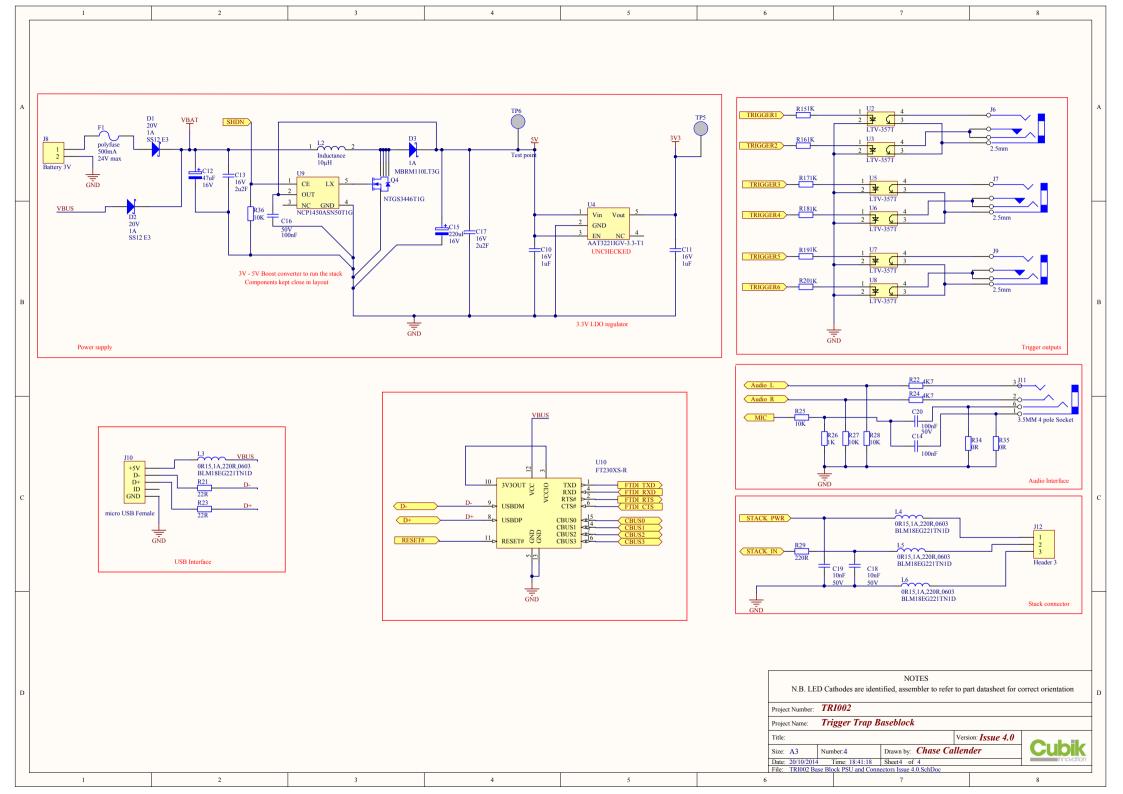
PCB	
PCB drawn by	Giles Sanders
PCB Name	TRI002 Baseblock
PCB Version	Issue 4.0

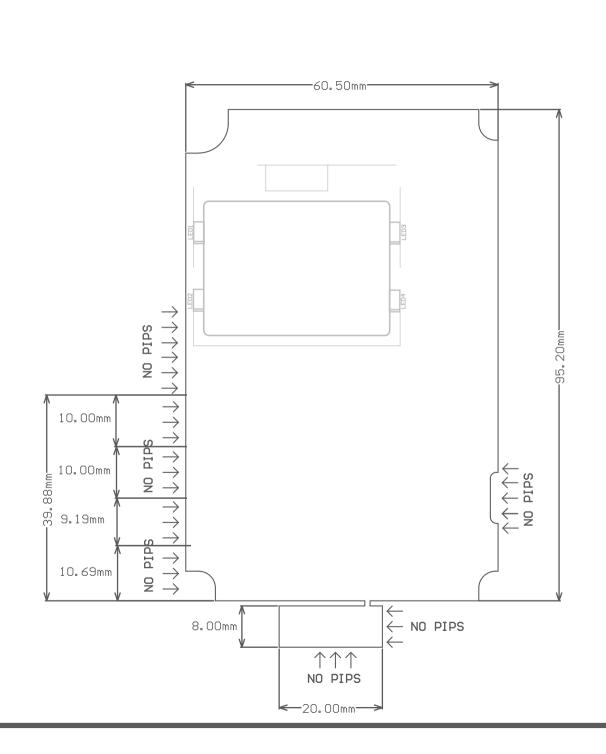
Report Date & Time	20/10/2014 18:41:10
Print Date:	20-Oct-14
Print Time:	6:41:14 PM











Finished Board Thickness 1mm
Board to be FR4 Material
Board is 2 layer
Double sided resist in GREEN
2 Idents
Copper weight to be 1 oz finished
All Holes PTH
Please ignore all items outside MECH 1
Finish HASL Lead Free

Build notes

LED Cathodes are identified, assembler to refer to part datasheet for correct orientation.

Layout by:

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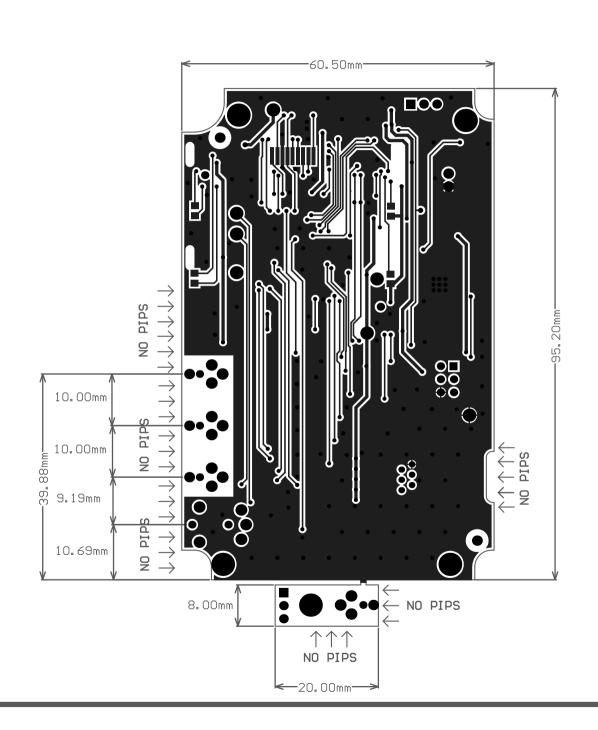
Tel: 0117 244 3000

Email: paul.mullen@cubik-innovation.co.uk

Layer

Mechanical 1 Mechanical 2 Top Overlay

Drawn by	Giles Sanders				
Date	13/10/2014				
Issue	Issue 4.0				
Document Name	TRI002_Baseblock_issue 4.0.PcbDoc				



Finished Board Thickness 1mm
Board to be FR4 Material
Board is 2 layer
Double sided resist in GREEN
2 Idents
Copper weight to be 1 oz finished
All Holes PTH
Please ignore all items outside MECH 1
Finish HASL Lead Free

Build notes

LED Cathodes are identified, assembler to refer to part datasheet for correct orientation.

Layout by:

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Tel: 0117 244 3000

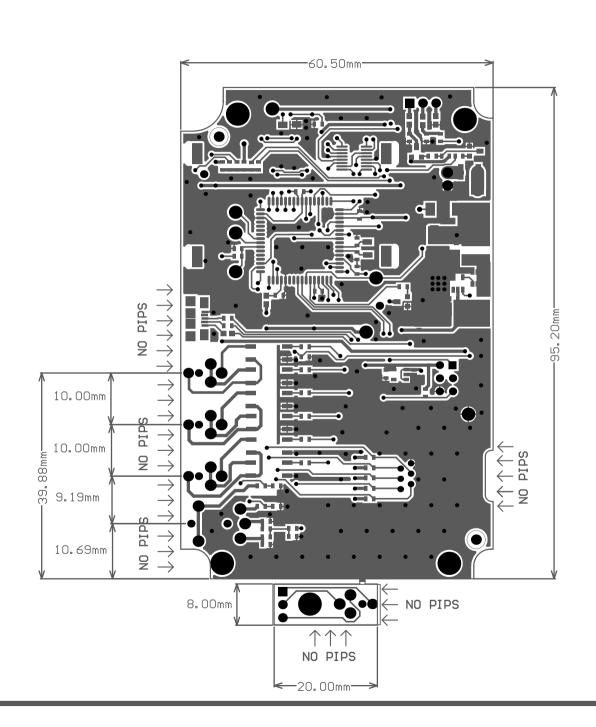
Email: paul.mullen@cubik-innovation.co.uk

Layer

Mechanical 1 Mechanical 2 Multi-Layer

Top Layer

Drawn by	Giles Sanders
Date	13/10/2014
Issue	Issue 4.0
Document Name	TRI002_Baseblock_issue 4.0.PcbDoc



Finished Board Thickness 1mm
Board to be FR4 Material
Board is 2 layer
Double sided resist in GREEN
2 Idents
Copper weight to be 1 oz finished
All Holes PTH
Please ignore all items outside MECH 1
Finish HASL Lead Free

Build notes

LED Cathodes are identified, assembler to refer to part datasheet for correct orientation.

Layout by:

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Tel: 0117 244 3000

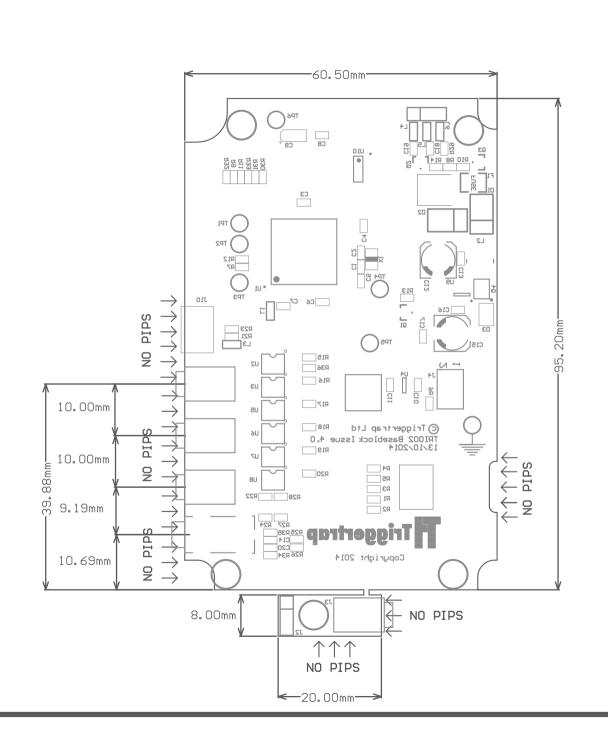
Email: paul.mullen@cubik-innovation.co.uk

Layer

Mechanical 1 Mechanical 2 Keep-Out Layer

Bottom Layer

Drawn by	Giles Sanders				
Date	13/10/2014				
Issue	Issue 4.0				
Document Name	TRI002_Baseblock_issue 4.0.PcbDoc				



Finished Board Thickness 1mm
Board to be FR4 Material
Board is 2 layer
Double sided resist in GREEN
2 Idents
Copper weight to be 1 oz finished
All Holes PTH
Please ignore all items outside MECH 1
Finish HASL Lead Free

Build notes

LED Cathodes are identified, assembler to refer to part datasheet for correct orientation.

Layout by:

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Tel: 0117 244 3000

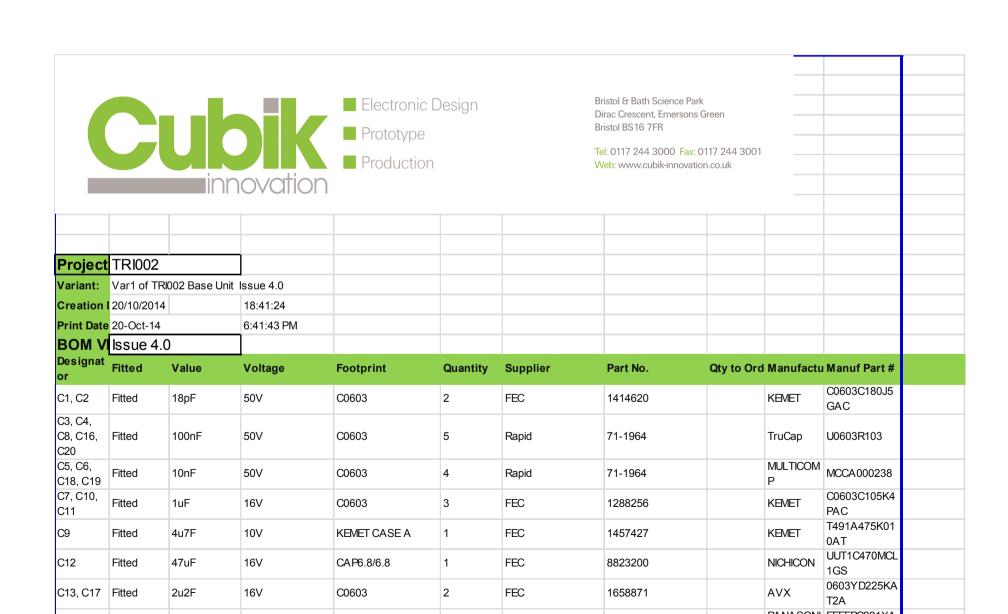
Email: paul.mullen@cubik-innovation.co.uk

Layer

Mechanical 1 Mechanical 2

Bottom Overlay

Drawn by	Giles Sanders
Date	13/10/2014
Issue	Issue 4.0
Document Name	TRI002_Baseblock_issue 4.0.PcbDoc



012	i ittou	77 (1)	10 0	Or (1 0.0/0.0	'	1 20	0020200	NON	1GS	
C13, C17	Fitted	2u2F	16V	C0603	2	FEC	1658871	AVX	0603YD225KA T2A	
C15	Fitted	220uF	16V	CAP6.8/6.8	1	FEC	1539479	PANASONI C	EEEFPC221XA P	
D1, D2	Fitted	SS12 E3	20V	DO214-AA	2	Rapid	47-0988	Taiw an Semicondu ctor	SS12 E3	
D3	Fitted	MBRM110LT3 G	?V	POWERMITE	1	FEC	1459062	ON SEMICOND UCTOR	MBRM110LT3 G	
F1	Fitted	polyfuse	24V max	1210 FUSE	1	FEC	1822208	LITTELFUS E	1210L050YR	
J2	Fitted	Daughter Board Con		sip3	1					
J3, J6, J7, J9	Fitted	2.5mm		2.5mm socket TRI001	4	FEC	1280745	PRO SIGNAL	PSG01539	
J4	Fitted	JTAG Header		HDR2X3	1	Rapid	22-0500	TruConnec t		
J5	Fitted	FFC 6 way top contact		HLW6R-2C7LF	1	MOUSER	649-HLW6R-2C7LF	FCI	HLW6R-2C7LF	
J8	Fitted	22-05-7025		Molex 0022057025	1	FEC	9979670	MOLEX	22-05-7025	
J10	Fitted	micro USB Female		micro usb receptacle	1	MOUSER	649-10118192- 0001LF	FCI	10118192- 0001LF	
J11	Fitted	3.5MM 4 pole Socket		Cliff 3.5mm 4 pole socket	1	FEC	2309468	CLIFF ELECTRON IC	FC68125	
J12	Fitted	Stack Con		sip3	1					
L1, L3, L4, L5, L6	Fitted	BLM18EG221 TN1D		L0603	5	FEC	1515717	MURATA	BLM18EG221T N1D	
L2	Fitted	10μΗ		WE-PD2_5848	1	FEC	1636014	Würth Elektronik eiSos GmbH	74477410	
LCD1	Fitted	LPH7366-1		LPH-7366	1	w w w .008620.net	LPH7366-1	Na	na	
LED1, LED2, LED3, LED4	Fitted	MCL- S270SRC		LED, RED, 0805	4	FEC	1581239	MULTICOM P	MCL-S270SRC	
Q1	Fitted	FDN335N		SOT-23	1	FEC	9845348RL	FAIRCHILD SEMICOND UCTOR	FDN335N	
Q2	Fitted		8V	SOT-23 DIODE - duplicate	1	FEC	NTR2101PT1G	ON SEMICOND UCTOR	NTR2101PT1G	
Q3	Fitted	BC847B		SOT-23T	1					
Q4	Fitted	NTGS3446T1 G		TSOP6	1	RS	802-4221	ON Semicondu ctor	NTGS3446T1G	
R1, R2, R3, R4, R5, R6.										

								ClOI		
R1, R2, R3, R4, R5, R6, R8, R25, R27, R28, R36	Fitted	10k		R0603	11					
R7, R12	Fitted	1M		R0603	2					
R9, R11, R30, R31	Fitted	100R		R0603	4					
R10, R13, R15, R16, R17, R18, R19, R20, R26	Fitted	1K		R0603	9					
R14, R29	Fitted	220R		R0603	2					
R21, R23	Fitted	22R		R0603	2					
R22, R24	Fitted	4K7		R0603	2					
R32, R35	Fitted	0R		R0603	2					
U1	Fitted	ATXMEGA12 8A3-AU		64A_N	1	FEC	1748550	ATMEL	ATXMEGA128 A3-AU	
U2, U3, U5, U6, U7, U8	Fitted	LTV-357T		SMD-4	6	MOUSER	859-LTV-357T	Lite-on	LTV-357T	
U4	Fitted	AAT3221IGV- 3.3-T1		TSOT 5 pin	1	MOUSER	873-AAT3221IGV- 33T1	,	AAT3221IGV- 3.3-T1	
U9	Fitted	NCP1450ASN 50T1G		SOT23-5AN	1	FEC	1460676	ON SEMICOND UCTOR	NCP1450ASN5 0T1G	
U10	Fitted	FT230X		SSOP-16_N	1	MOUSER	895-FT230XS-R	FTDI	FT230XS-R	
X1	Fitted	32.768KHz		FC 13F	1	FEC	1712821	EPSON TOYOCOM	FC- 13F,32.768KH Z, 12.5PF	
C14	Not Fitted	100nF	50V	C0603	0	Rapid	71-1964	TruCap	U0603R103	
R33, R34	Not Fitted	0R		R0603	0					