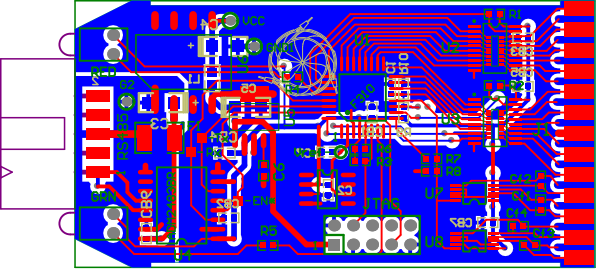

U1
C8051F310-GQ
Silicon Laboratories
LQFP-32
C8051F310
C1
0.1uF
R9
4K7
R10
1.3K
0.7Volts
SST_REF
+3.3V
GND1
LED2
GRN
LED1
RED
R5
330
R4
330
SPARE
uP_C2D
uP_C2CK
VREF_2.5V
P0.1
CB1
0.1uF
SST_IO
SST_DRV
OE2n
OE1n
485_RXD
485_TXD
485_TX_EN
P0.2
RP1
Res Pack3
1K
RP2
Res Pack3
1K
U2
Texas Instruments
SN74CB3T3245PWR
U3
Texas Instruments
SN74CB3T3245PWR
R1
1K
R2
1K
CB3
0.1uF
CB4
0.1uF
J1
DB25
JTAG
HEADER 5X2
VCC
R3
4K7
R6
4K7
TCK
TDO
TMS
TDI
U7
ADT7486A
U8
ADT7486A
Cf1
100pF
Cf2
100pF
Cf3
100pF
Cf4
100pF
ADD=0x48
ADD=0x4A
CB7
100nF
R7
10K
R8
10K
Vref
ADC Vref
Analog Devices Inc
REF192ESZ
2.5V ±0.8%
C2
100nF
C7
100nF
U4
Analog Devices
ADM2483BRWZ
CB5
0.1uF
CB6
0.1uF
+5V
GND2
ISOLATION
GALVANIC
RS485A
RS485B
RS485
3M
N2510-6002RB
F1
Bourns Inc.
MF-MSMF030-2
300ma
EXT_PWR
U5
Texas Instruments
REG102GA-3.3
250ma
CB2
0.1uF
C6
10nF
L1
Inductor
10uH
C5
10uF
C4
10uF
U6
CUI Inc
VBT1-S5-S5-SMT
C3
4.7uF
+Vout
Galvanic isolation
EXTERNAL GROUND
Power by MSCB +5V

PCB OUTLINE Conforms to:

PACTEC Enclosures plastic case

DB25 - DB9 (3.234")

Manufacturer Part No: CNM-0103 BLACK KIT

Newark Part Number: 91F5266

TRIUMF
LOGO

MSCB - Generic I/O Module

Revision	Drawing #: *		TRIUMF 4004 Wesbrook Mall Vancouver, B.C. Canada V6T 2A3	Cannot open file G:\AHW\PROTEL\SCH_LIB\TRI
0	Sheet #: 1 of 1	Size: B		
	Drawn by: D.Bishop	Date: 05-Jun-08		
File:	C:\Projects\MSCB\Altium-GenericIO-ver0\MSCB - Generic IO Module.SchDoc			20:52:10

Bill of Materials

MSCB - Generic I/O Module

Source Data From:	**MSCB - Generic IO Module.PrjPcb**	
Project:	**MSCB - Generic IO Module.PrjPcb**	
Variant:	**None**	

Creation Date: 05-Jun-08   20:52:17

Print Date: 39604   39604.86972

Footprint	Comment	#Column Name E	Designator	#Column Name Error:Description	Quantity
0603	0.1uF		C1, CB1, CB2, CB3, CB4, CB5, CB6		7
0603	100nF		C2, C7, CB7, Cf1, Cf2, Cf3, Cf4		7
1206P	4.7uF		C3		1
1206P	10uF		C4, C5		2
0603	10nF		C6		1
1812	MF-MSMF030-2		F1		1
DB25EDGE/M	DB25		J1		1
IDC10	HEADER 5X2		JTAG		1
0805	Inductor		L1		1
LED-DIALIGHT	RED		LED1		1
LED-DIALIGHT	GRN		LED2		1
0603	1K		R1, R2		2
0603	4K7		R3, R6, R9		3
0603	330		R4, R5		2
0603	10K		R7, R8		2
0603	1.3K		R10		1
RES ARRAY EXB-2HV	Res Pack3		RP1, RP2		2
IDC10/EDGE SHROUD	RS458		RS485		1
TRIUMF LOGO1	TRIUMF LOGO		TLOGO		1
LQFP32	F310		U1		1
PW020	#NAME?		U2, U3		2
SOL-16	ADM2483BR		U4		1
SOT-223-5	REG102GA-3.3		U5		1
VBT1-S5-SMT	VBT1-S5-S5-SMT		U6		1
MSOP10	ADT7486A		U7, U8		2
SO-8			Vref		1
					47

Approved

Notes