

<b>DigiTool Instruments AB</b>	Document Number	Revision Date	Page / Pages
	DBI_1.3.1_1	2004-11-23	1/13

<b>Revision History</b>		
<b>Date</b>	<b>Description</b>	<b>Prepared</b>
2002-01-22	issued pdf format file	Staffan Ralberg
2004-11-23	Issued doc file with revision history	Staffan Ralberg

<b>DigiTool Instruments AB</b>	Document Number	Revision Date	Page / Pages
	DBI_1.3.1_1	2004-11-23	2/13

<b>Main board</b>			
<b>Name</b>	<b>Type</b>	<b>Description</b>	<b>Supply</b>
U1	ATMEGA103L-4AI	Atmel uController	Acte
U3	MAX3221CAE	RS232 xmitter	Farnell 305-0300
U3	MAX3227ECAE	RS232 xmitter	ELFA 73-265-31
U4	MAX4122EUK	OPamp SOT23-5	ELFA 73-080-18
U4	TS931ILT	OPamp SOT23-5	Farnell 332-9379
U5	SED1540F	Seiko Epson LCD controller	Acte
U6	SVEN1036V00	LCD glass	Digitool
U7	DS1818R-10	uP Supervisory SOT23	ELFA 73-773-51
U8	MAX6120	Volt ref SOT23	ELFA 73-124-08
U9	LM2941S	Volt reg	ELFA 73-085-54
U10	MAX828EUK-T	Volt inverter SOT23-5	Farnell 794-624
U11	MAX1676EUB	DC/DC conv	Farnell 301-2657
U12	RX2-433-A-3V	Radiometrix RF receiver module	Radiometrix
U13	PCF8593T	I2C bus RTC	ELFA 73-857-01
U14-17	24LC256ISM	Microchip I2C EEPROM	Farnell 300-1702
U18	74HC14	Hex inverter	ELFA 73-900-99
Q1,5	PDTC144ET	NPN SOT23	ELFA 71-303-88
Q2-3	BSS84	PFET DMOS SOT23	ELFA 71-307-76
Q4	BC856B	PNP SOT23	ELFA 71-304-20
D1,2,3,4	BAS85	Schottky diod	ELFA 70-306-04
Z1	SM6T6V8A	Transil	ELFA 70-400-09
BAT1	ML1220HJ	Lithium battery	ELFA 69-265-05
X3	A103D	32 kHz crystal	ELFA 74-530-12
X2	CSTSS400MG-TC	Keramic resonator 4 MHz	ELFA 74-625-67
R2	10k	Resistor 0805	MultiCAD
R3	500R	Resistor 0805	MultiCAD
R4	500R	Resistor 0805	MultiCAD
R5	10k	Resistor 0805	MultiCAD
R6	10k	Resistor 0805	MultiCAD
R7	10k	Resistor 0805	MultiCAD
R8	10k	Resistor 0805	MultiCAD
R9	1M	Resistor 0805	MultiCAD
R10	1M	Resistor 0805	MultiCAD

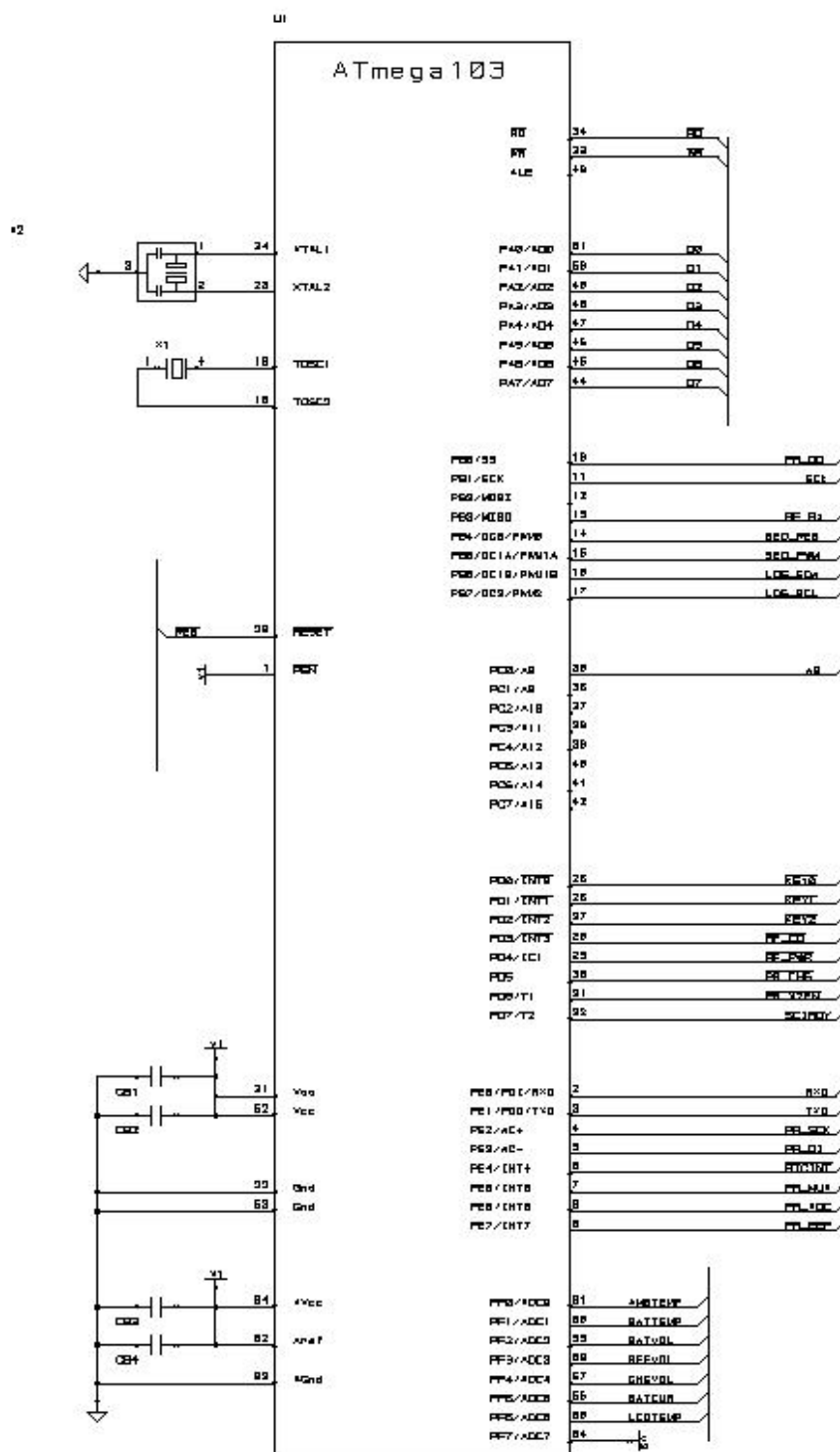
<b>DigiTool Instruments AB</b>	Document Number	Revision Date	Page / Pages
	DBI_1.3.1_1	2004-11-23	3/13

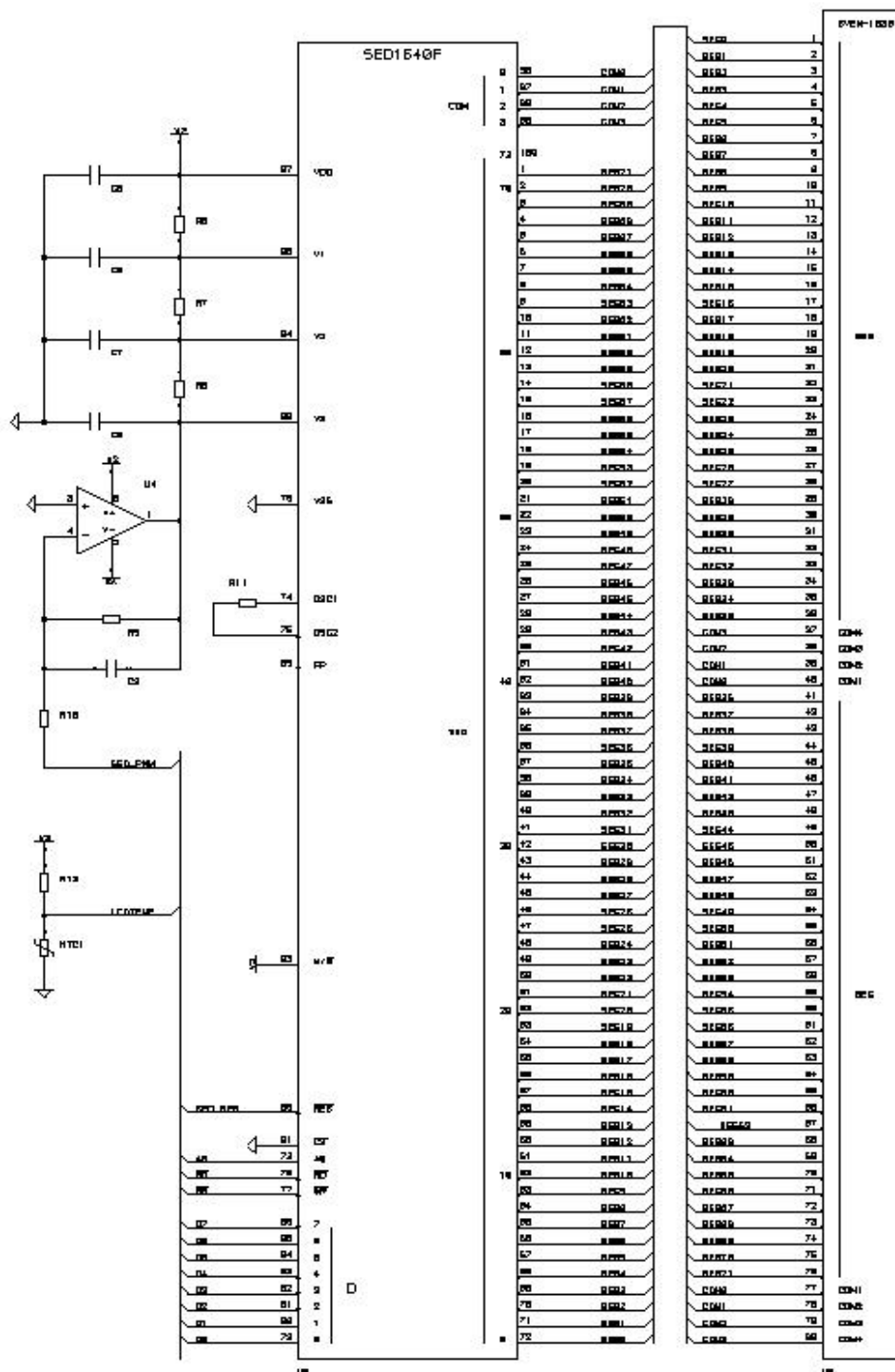
R11	1M	Resistor 0805	MultiCAD
R12	47k	Resistor 0805	MultiCAD
R13	10k	Resistor 0805	MultiCAD
R14	1k	Resistor 0805	MultiCAD
R15	1k	Resistor 0805	MultiCAD
R16	1k	Resistor 0805	MultiCAD
R17	1M	Resistor 0805	MultiCAD
R18	47k	Resistor 0805	MultiCAD
R19	10k	Resistor 0805	MultiCAD
R20	Do not mount	Resistor 0805	MultiCAD
R22	10k	Resistor 0805	MultiCAD
R23	47k	Resistor 0805	MultiCAD
R24	1k	Resistor 0805	MultiCAD
R25	10k	Resistor 0805	MultiCAD
R26	10k	Resistor 0805	MultiCAD
R27	1k	Resistor 0805	MultiCAD
R100	10k	Resistor 0805	MultiCAD
R101	10k	Resistor 0805	MultiCAD
R102	10k	Resistor 0805	MultiCAD
R110	1R	Resistor 1206	MultiCAD
R111	1R	Resistor 1206	MultiCAD
R120	47k	Resistor 0805	MultiCAD
R130	200R	Resistor 0805	MultiCAD
PTC2	SMD100	Polyfuse	ELFA 60-275-36
NTC1	47k	NTC thermistor 47k 0805	ELFA 60-303-81
NTC2	Do not mount		
CB1-6 C1-12, 19-20	Generic	Capacitor 100n X7R 0805	MultiCAD
C21	REMOVED		
C13,14,1 8,22	Generic	Tantal 4u7/6V Size A	ELFA 67-736-34
C15	Generic	Tantal 22u/20V Size D	ELFA 67-726-44
C16,17	Sanyo POS-CAP	Organic Tantal 330/6	ELFA 67-761-24
C100,10 1	ADDED	Capacitor 15pF NP0 0805	ELFA 65-797-83
L1	LPC4045 22 uH	Koa Choke 22 uH	ELFA 58-830-20
CL1	PLM3216K281SJ2	Murata common mode choke	ELFA 58-792-91
SW1,2,3	3KHCAD	Push button switch	ELFA 35-655-12

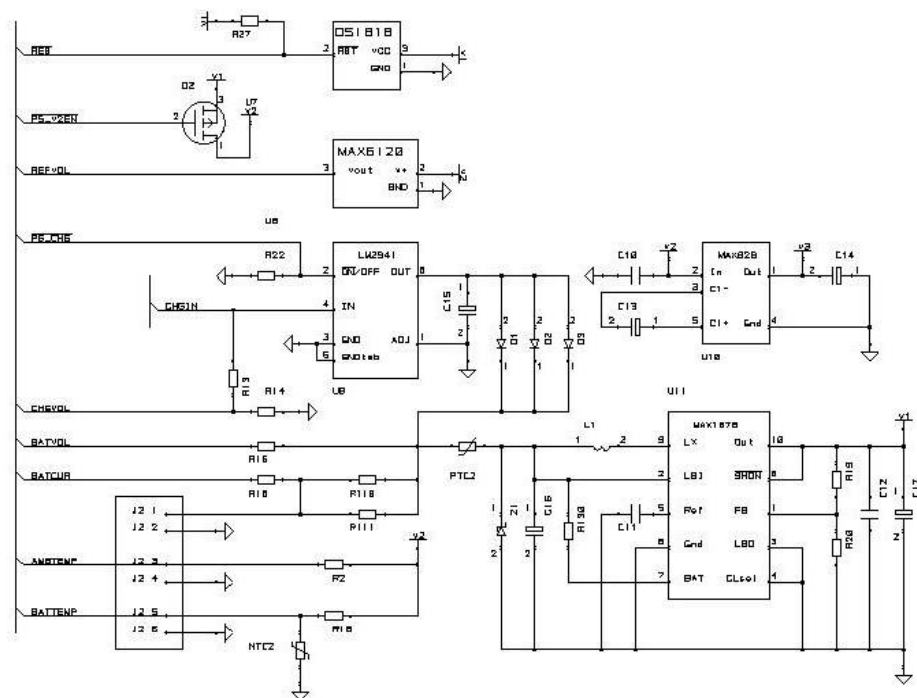
<b>DigiTool Instruments AB</b>	Document Number	Revision Date	Page / Pages
	DBI_1.3.1_1	2004-11-23	4/13

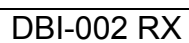
J1	43045-0609	6p 2x3 connector	CLL 018-349460, www.cll.se
J2	43650-0512	5p 1x5 connector	CLL 018-349460, www.cll.se
PPR	D016020001	Harwin socket strip - 12	Farnell 519-959
F1,2		Test point to attach Pmodule	ELFA 48-415-57
PCB			MultiCAD

<b>Pressure sensor module</b>			
<b>Name</b>	<b>Type</b>	<b>Description</b>	<b>Supply</b>
U1	SX15AN	Sensym Pressure sensor	Amtele AB (Dig 10)
U2	LTC2408CG	ADC	Ericsson Comp (Dig 40)
U3	93LC66B	EEPROM SO8	ELFA 73-657-78
R1	130 Ohm	Meggitt Polymers & Composites RN Series Resistor 0805	Farnell 553-153 (Dig 25)
C1-7	NP0 220p 0805	Cer cap	ELFA 65-612-37
C2	330/6	Organic Tantal 330/6	ELFA 67-761-24
L1	LPC4045	Koa Choke 680 uH	ELFA 58-831-11
J1,2	BBL-106-G-E	Samtec pin connector	Freber tel 08-7120480
SH		Metallic Shield box	MultiCAD
PCB			MultiCAD



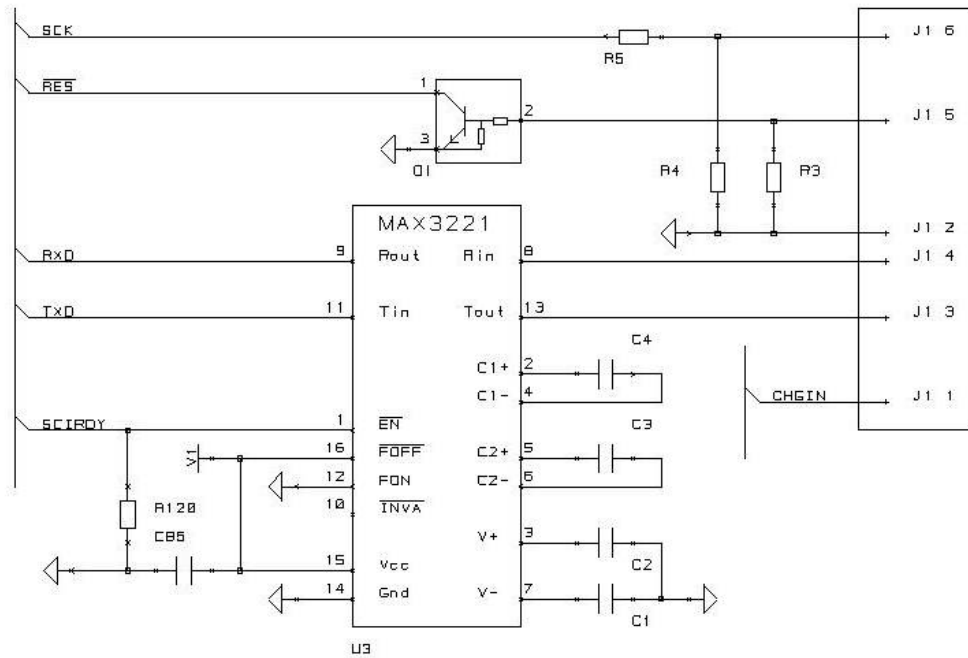




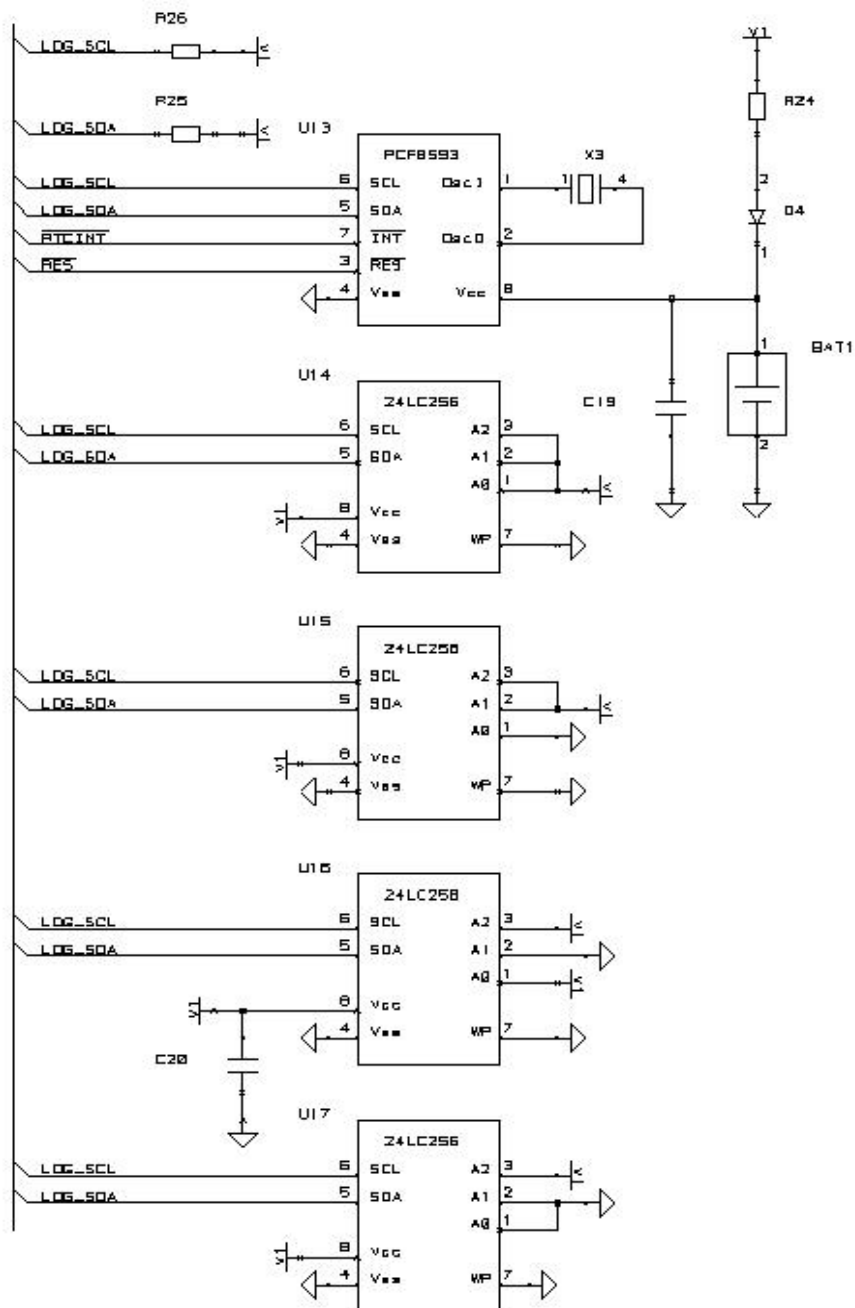




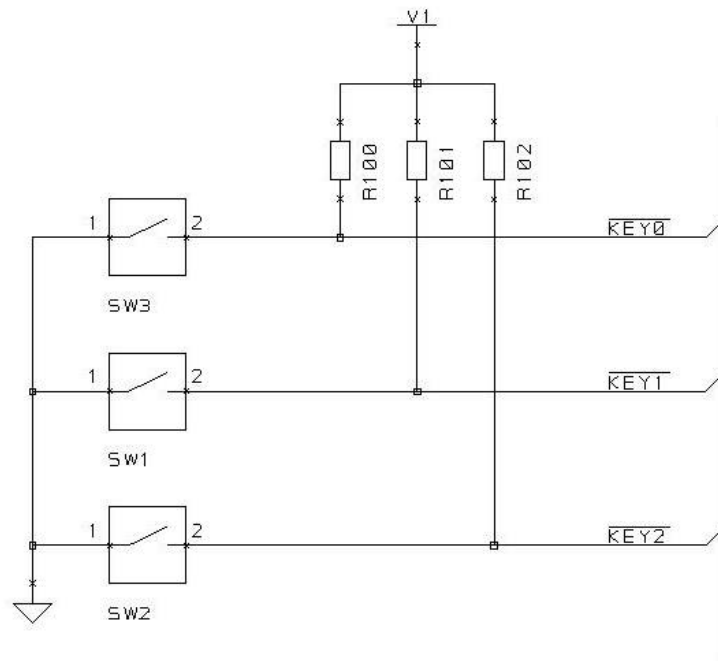
DigiTool Instruments AB	Document Number	Revision Date	Page / Pages
	DBI_1.3.1_1	2004-11-23	9/13



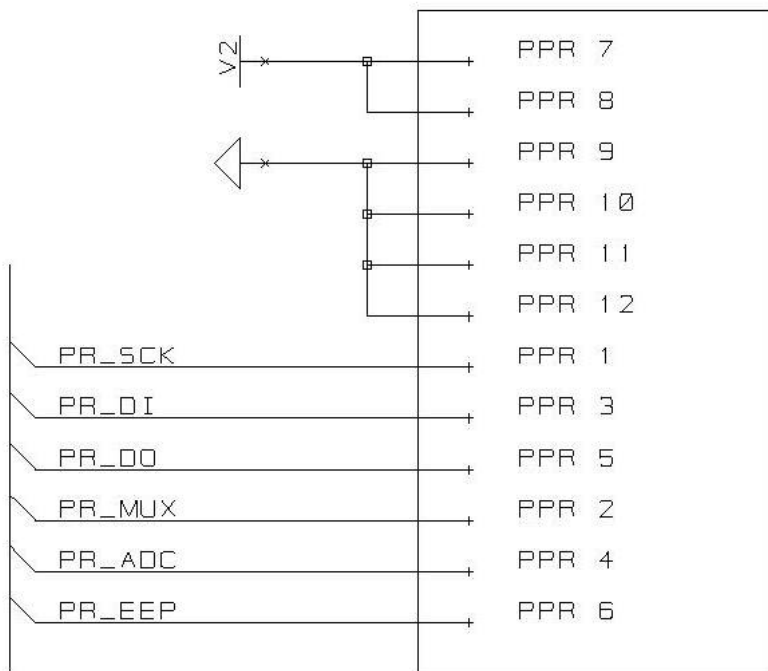
DBI-002 COMM



DigiTool Instruments AB	Document Number	Revision Date	Page / Pages
	DBI_1.3.1_1	2004-11-23	11/13



DBI-002 Control buttons



DBI-002 Pressure sensor interface

