
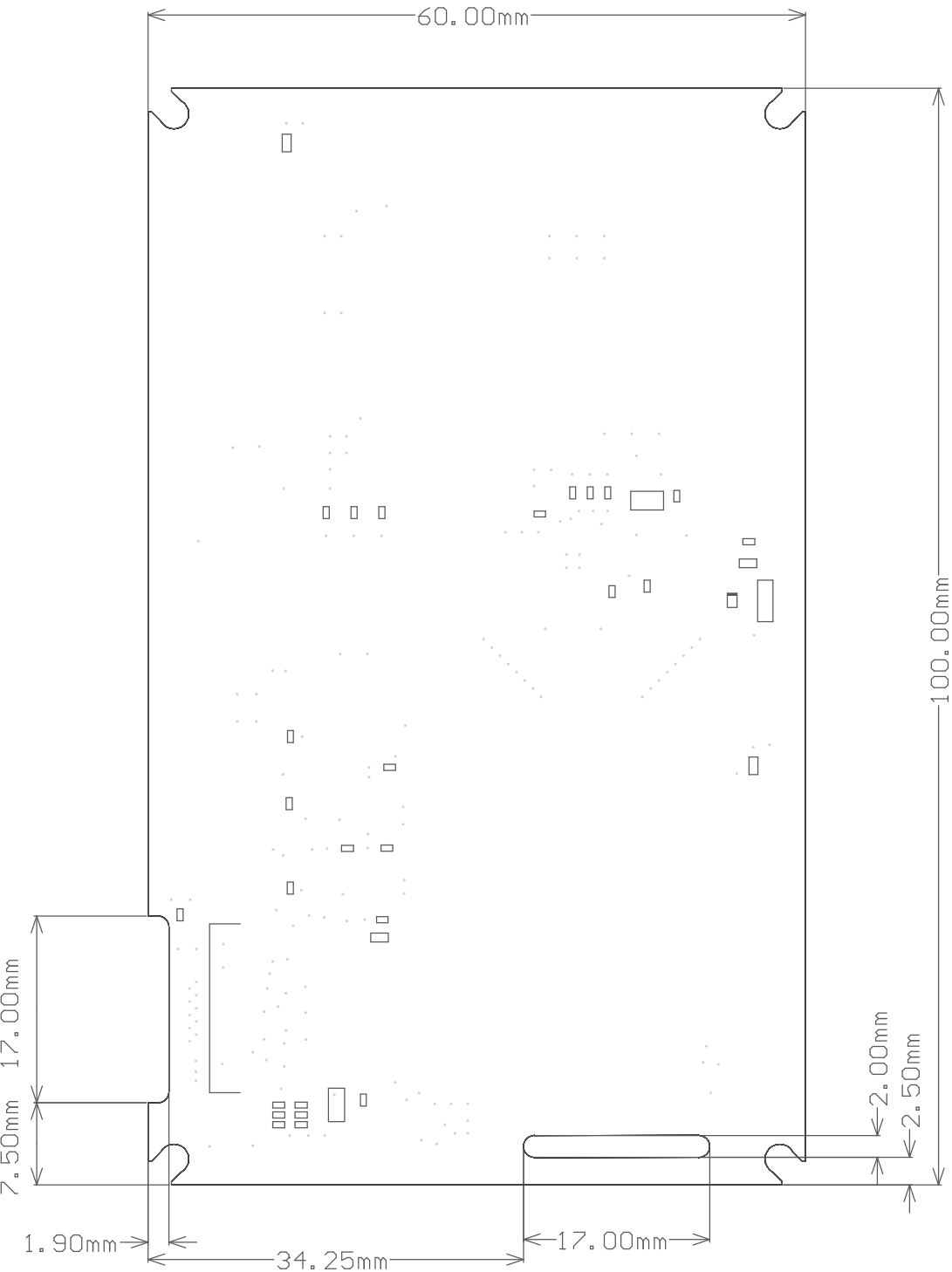
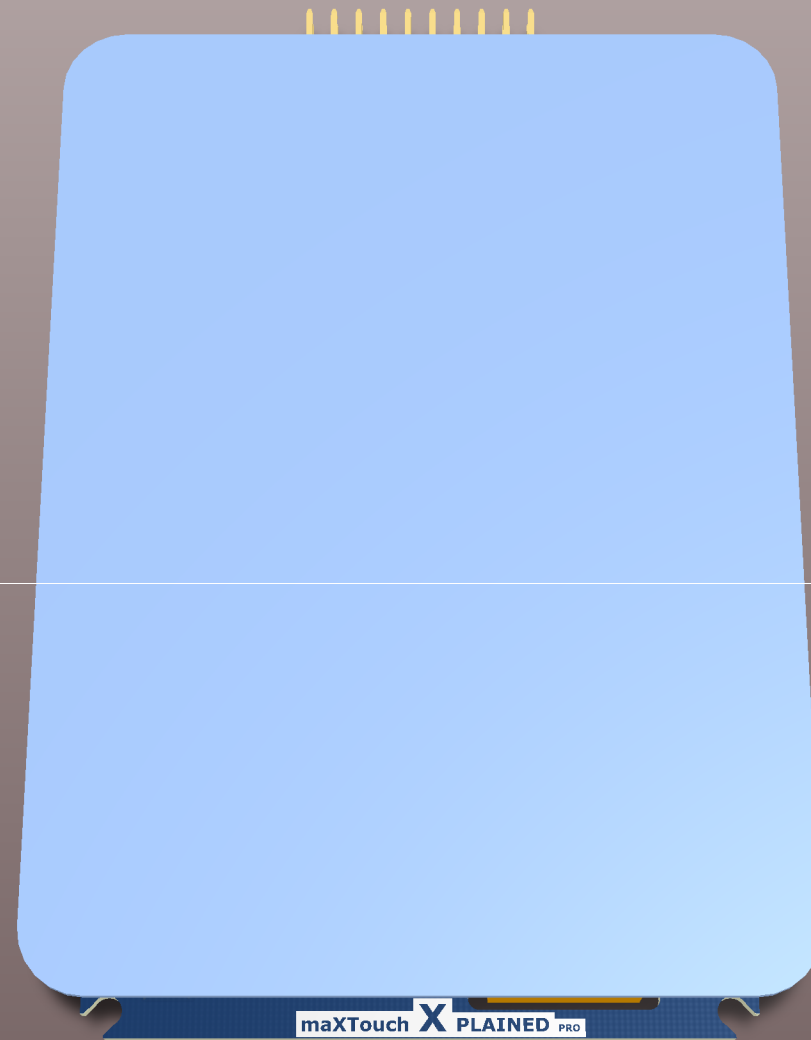


ATMEL Norway		*	 <small>Enabling Unlimited Possibilities</small>	
Vestre Rosten 79		*		
N-7075 TILLER		*		
NORWAY				
Date:	5/6/2014	11:16:28 AM	PAGE:	1 of 1
Document number: A09-2171			Revision	2
TITLE: maXTouch Xplained Pro				
maXTouch Xplained Pro.SCHDOC				

Mechanical Dimensions





Atmel

maXTouch **X** PLAINED PRO

XPRO
EXTENSION
HEADER

ID NC DCX PWM IRQ SDA NC CS MISO GND
GND NC NC NC RST SCL NC MOSI SCK VCC

IM2	IM1	IMO	MODE
0	0	0	18-BIT MCU
0	0	1	9-BIT MCU
0	1	0	16-BIT MCU
0	1	1	8-BIT MCU
1	0	1	3W SPI/RGB
1	1	1	4W SPI

DEBUG CONNECTOR

1 10

PCBA LABEL

A08-1962 Rev 2

ITO CONNECTOR

1 26

XPRO LCD CONNECTOR

1

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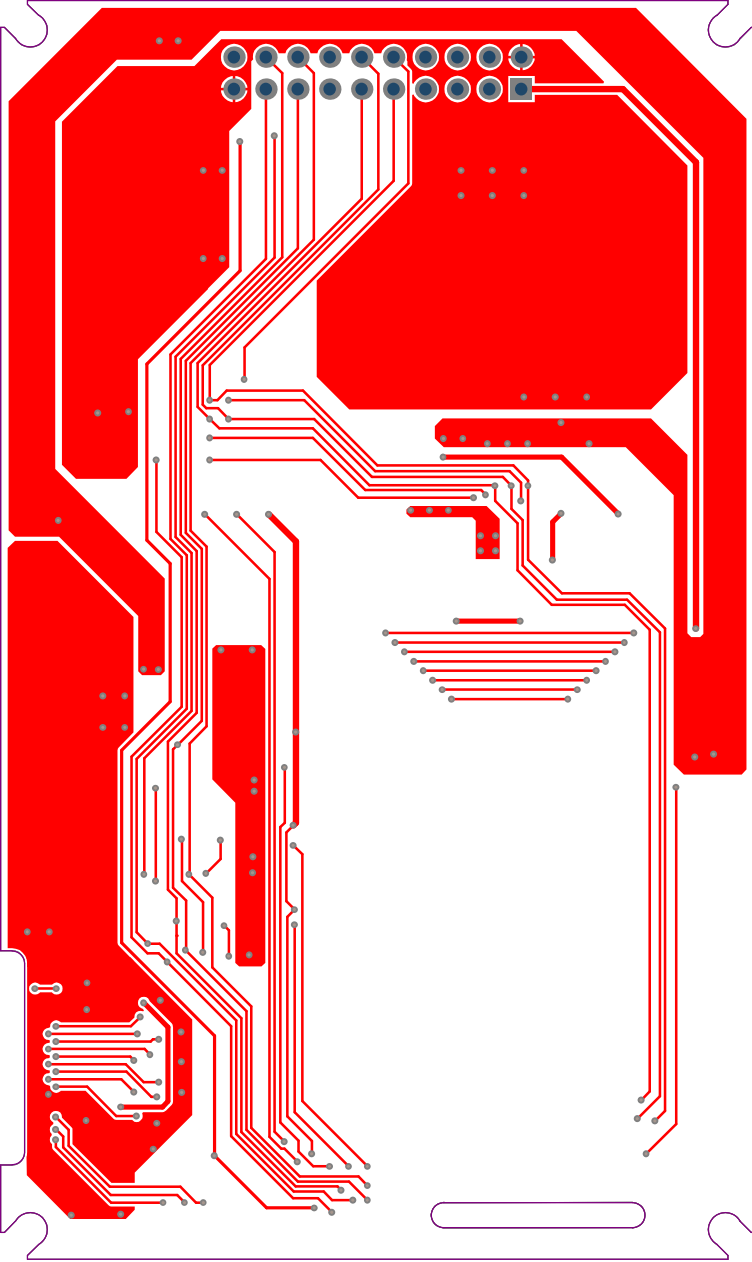
DISPLAY CONNECTOR

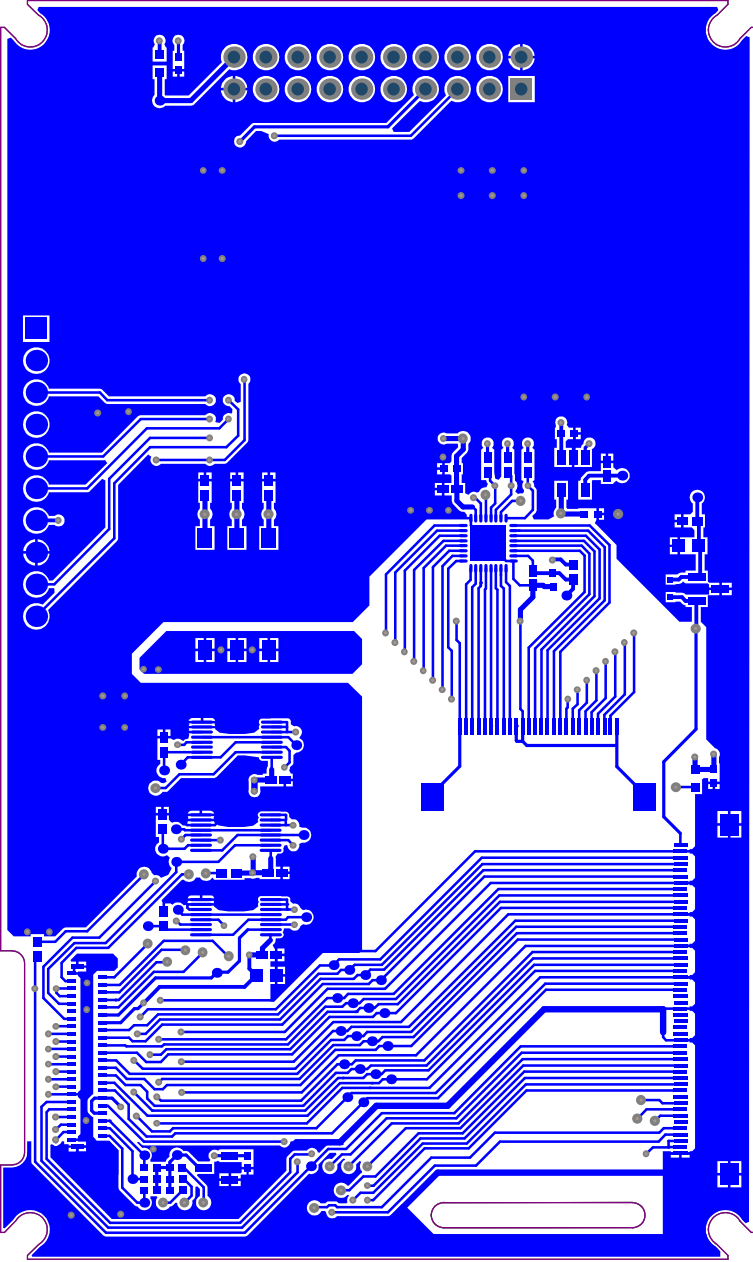
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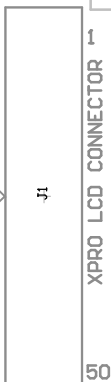
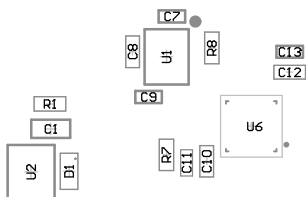
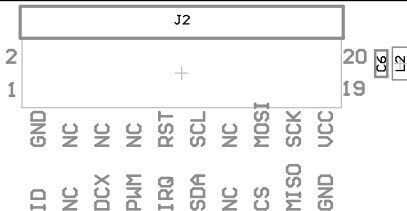
DOUBLESIDED TAPE

LCD1

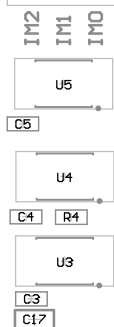
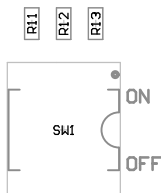
Atmel

maXTouch X PLAINED PRO

XPRO
EXTENSION
HEADER



IM2	IM1	IMO	MODE
0	0	0	18-BIT MCU
0	0	1	9-BIT MCU
0	1	0	16-BIT MCU
0	1	1	8-BIT MCU
1	0	1	3W SPI/RGB
1	1	1	4W SPI



DISPLAY CONNECTOR



DEBUG CONNECTOR 1 10

PCBA LABEL
LABEL1
A08-1962 Rev 2

Component list

Bill of Materials Fitted For Variant [maXTouch_Xplained_Pro] of Project [maXTouch_Xplained_Pro.PRJPCB] (No PCB Document Selected)

Source Data From:

maXTouch_Xplained_Pro.PRJPCB

Project:

maXTouch_Xplained_Pro.PRJPCB

Variant:

maXTouch_Xplained_Pro

Report Date: 5/6/2014

11:16:40 AM

Print Date: 5/6/2014

11:16:39 AM



Fitted	Designator	Quantity	Value	Manufacturer	MPN	Description
Fitted	C1, C17	2	4u7			Ceramic capacitor, SMD 0603, 10V, ±10%
Fitted	C2, C6, C7, C9, C11, C13	6	1uF	AVX	0402ZD105KAT2A	Ceramic capacitor, SMD 0402, X5R, 10V, ±10 %
Fitted	C3, C4, C5, C8, C10, C12	6	100n	Kemet	C0402C104K4RACTU	Ceramic capacitor, SMD 0402, X7R, 16V, +/-10%
Fitted	D1	1	BAT54XV2T1G	ON Semiconductor	BAT54XV2T1G	Schottky diode, If:200mA, Vf:0.35V, Vrrm:30V, SOD-523
Fitted	J1	1	XF2M-5015-1A	Omron Components	XF2M-5015-1A	50pin FPC connector, 0.5mm pitch, Top/Bottom contacts
Fitted	J2	1	P101-2*10RGF-139-ND	Pro-data International Corp	P101-2*10RGF-139-ND	Pin header, 2x10, Right Angle, 2.54mm, THM, Pin In Paste
Fitted	J3	1	046288026000846+			26pin ZIF right angle 0.5mm pitch
Fitted	J4	1	1-2013496-8	TE Connectivity	1-2013496-8	45 pin, bottom side, FPC connector, 0.3mm pitch
Fitted	L1, L2	2	BLM18PG600SN15			SMD EF inductor 0603. Z=60ohm @100MHz, Max R(dc)=0.10ohm, Max current=500mA
Fitted	LABEL1	1	Label PCBA	ACT Logimark AS	505462	PCBA identification label PP Top White Gloss
Fitted	LCD1	1	91-00028-A0	Precision Design Associates (PDA)	91-00028-A0	3.5in HG/A TFT LCD
Fitted	PCB1	1	maXTouch Xplained Pro PCB			maXTouch Xplained Pro PCB
Fitted	PCBADOC1	1	A09-2171 PCBA Files			maXTouch Xplained Pro PCBA Documentation
Fitted	R1	1	100k			Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R17	1	100k			Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R18, R19, R20, R21, R22, R23	6	56R			Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R2, R3, R4, R5, R6	5	1k			Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	R7	1	1R			SMD 0402, 1/16W, 1%
Fitted	R8, R11, R12, R13	4	10k	vishay	CRCW040210K0FKED	Thick film resistor, SMD 0402, 1/16W, 1%
Fitted	SW1	1	sbs1003	Knitter-Switch	sbs1003	DIL Switch, 3-poles, 2.54mm
Fitted	TEST1	1	maXTouch Xplained pro Fixture Test SW			maXTouch Xplained pro Fixture Test SW
Fitted	TESTDOC1	1	maXTouch Xplained Pro test instruction			maXTouch Xplained Pro test instruction
Fitted	U1	1		MICREL SEMICONDUCTOR	MIC5305-2.9YD5	150mA uCap Ultra-low dropout LDO Regulator
Fitted	U2	1	ATSHA204 SWI SOT23-3	ATMEL	ATSHA204-TSU-T	ATSHA204 with 1-wire interface and SOT23-3 package
Fitted	U3, U4, U5	3	SN74LV4053ADGVR	Texas Instruments	SN74LV4053ADGVR	Triple 2-channel analog multiplexers/demultiplexers
Fitted	U6	1	ATMXT112S-MAUR	ATMEL	ATMXT112S-MAUR	QFN32 ATMXT112S-MAU 112-channel touchscreen controller
Fitted	V1	1	BSS138	Fairchild	BSS138	N-Channel MOSFET. 50V, 0.22A continuous, 0.88A Peak. RDS(ON) = 3.5Ohm@VGS=10V, VGS(th)<1.5V
Not Fitted	J5	0	77315-101-10_LF	FCI	77315-101-10_LF	1x10 Pin Header, 2.54mm pitch, right angle. THM
Not Fitted	R9, R10	0	2k15			SMD 0402, 1/16W, 1%

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Approved

Notes