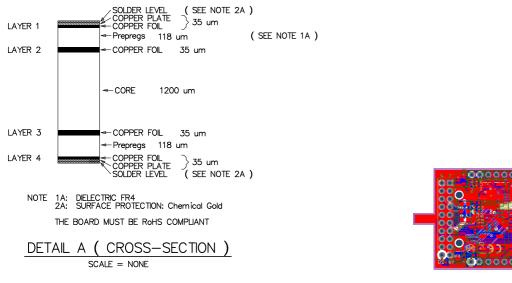
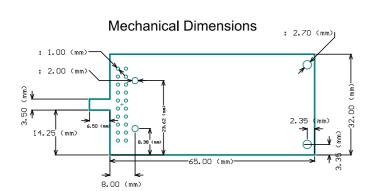


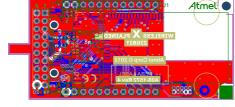
Xpro MCU board interface 20 pins Header 20 pins functions		MegaRFR2	Xmega256	RF212B/RF233	
1	ID_Data	ID_data			
2	GND	Ground	Ground		
3	ADC(-)	NC	NC NC		
4	ADC(+)	NC	NC NC		
5	GPIO	NC	NC	FEM_CSD	
6	GPIO	NC	NC	CLKM	
7	PWM(-)	RESET	RESET	RESET	
8	PWM(+)	CLKI	GPIO/TC	FEM_SEL	
9	9 GPIO/IRQ		PE4/TC	IRQ	
10	SPI_SS_B/GPIO	PE4/WK_INT	PD2/WK_INT	SLP_TR	
11	TWI_SDA	TWI_SDA	TWI_SDA	TWI_SDA	
12	TWI_SCL	TWI_SCL	TWI_SCL	TWI_SCL	
13	13 UART_RX 14 UART_TX 15 SPI_SS		ZB_TX	NC	
14			ZB_RX	NC	
15			SPI_SS	SPI_SS	
16	SPI_MOSI	SPI_MOSI	SPI_MOSI	SPI_MOSI	
17 SPI_MISO		SPI_MISO	SPI_MISO	SPI_MISO	
18	SPI_SCK	SPI_SCK	SPI_SCK	SPI_SCK	
19	GND	Ground			
20	Vcc	3.3V supply Voltage			

NC: No Connection

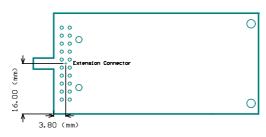
ATMEL India	SANJAY YADAV						
RMZ Millenia 2	MSK					206	
143, Dr. MGR Roa	*			Atmel			
Chennai							
Date:	4/25/2013	11:05	:36 AM	PAGE:	4 o	£ 4	
Document number:	*			Revision	4		
TITLE: *							
XPRO_Extension_ZB_Board_J100.SchDoc							
	_						











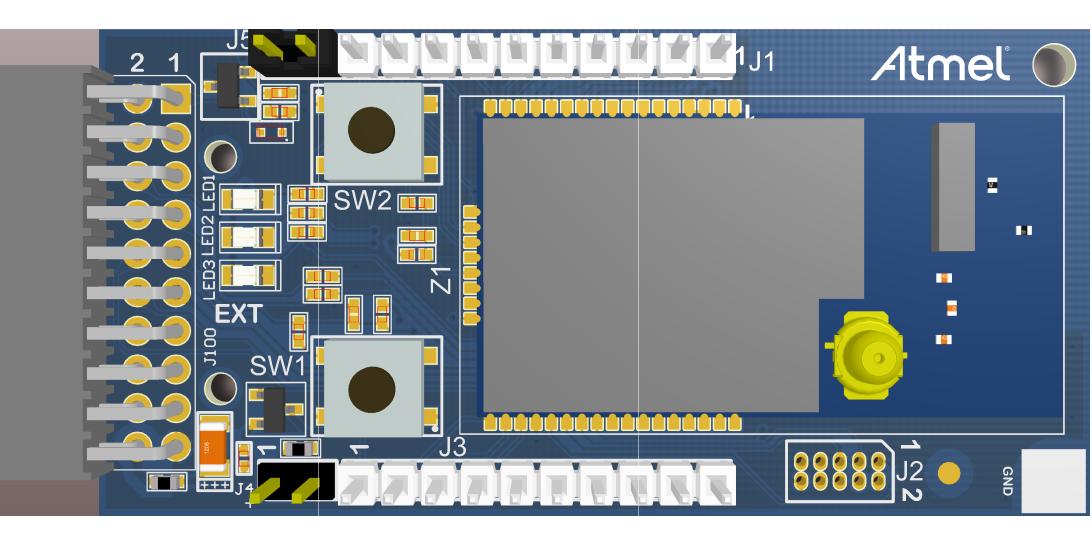


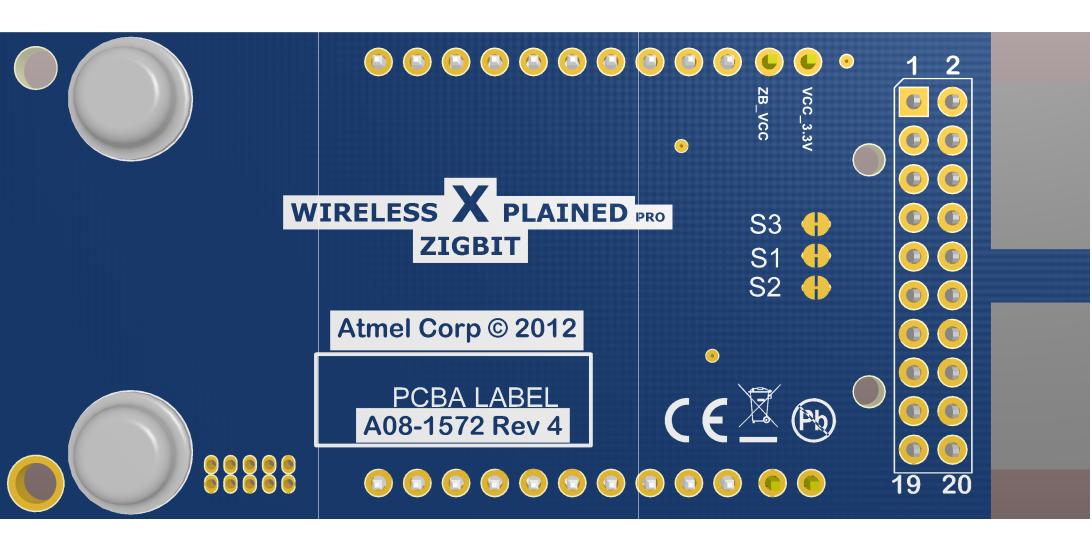


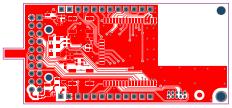
		ENGNEEPS	TILD	
	4			
		PCB DESIGNER		
	/Itmel			
		DATE	PART NO:	REVI
	ATHEL NORWAY	4,25,2013		
	Vestre Rosten 79	FLE NAME	DWG NO:	SCALE
	N-7075 Titer	A08-1572_Rev4.PobDoc		

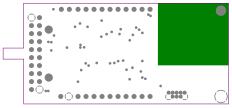


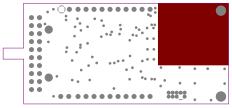


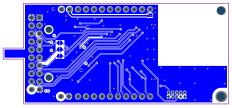












Fitted	Designator	Quantity	MPN	Manufacturer	Value	Description	Comment
Fitted	C1	1	TR3A106K016C1700	vishay	10u	ESR = 1.7, 3216-18 (EIA) 1206,	CAP-POL
Fitted	C2	1	GRM155R71H102K	Murata	1nF	0402, X7R, 50V, 10 %, (de16672)	CAP-NONPOL
Fitted	C3, C4	2			4.7n	0402, X7R, 25V, +/-10% (de35287)	CAP-NONPOL
Fitted	C100	1	GRM155R60J475ME8 7D	Murata	4.7uF	0402, X5R, 6.3V, +/-20% (de33687)	Recommended by Escatec. No datasheet available yet.
Fitted	D100	1	BAT54XV2T1G	ON Semiconductor	BAT54XV2T1G	Vf:0.35V, Vrrm:30V, SOD- 523	Famel# 1615809
Fitted	E1, E2	2	SJ-5076	зм		8.0mm adnesive leet,diam	RUBBER FEET
Fitted	FIXTURE1	1		ESCATEC	XPRO Zigbit Carrier Board Jupiter Test Fixture	Jupiter Test Fixture	JIG
Fitted	J1, J3	2			PIN HEADER 1x10	nx10 pin neader, 2.54mm pitch, THM	J1, J3
Fitted	J2	1	STL21-0730 G TT- 10U	Garry	PIN HEADER 2x5	2x5 pin neader, 1.27mm pitch, THM	HEADER 2x5
Fitted	J4, J5	2	CD075014 1X2	Freber	CD075014 1X2	rxz pin neader, z.54 mm pitch, Pin-in-Paste THM	HEADER 1x2
i illed	34, 33		CD073014 1/2	Tiebei	GD073014 1A2	2x10, remaie pin neader	TIEADER IXE
Fitted	J100	1	F201-2*10RGF-W2-NF	Pro-data International Corp	TF201-2*10RGF-W2-NF	receptable, right-angled, 2.54mm pitch, THM, Pin In Paste	
Fitted	JS1	1	SNT-100-BK-G	SAMTEC	SNT-100-BK-G	Jumper cap for 2.54mm pinheader	To be used by request from ESCATEC
Fitted	L1, L2	2	BLM18PG471SN1	Murata	BLM18PG471SN1	SMD RF Inductor 0603. Z=470Ohm (@100MHz), Max R(dc)=0.65Ohm, Max current=1A	INDUCTOR
Fitted	LABEL1	1	505462	ACT Logimark AS	Label PCBA	PP Top White Gloss	PCBA_LABEL
Fitted	LED1	1	EL17-21USRC	Everlight	EL17-21USRC	LED, Red, Wave length=639nm, SMD 0805, ±70°	LED_12
Fitted	LED2	1	EL17-21SYGC	Everlight	EL17-21SYGC	LED, Green, wave length=575nm, SMD 0805, ±70°	LED_12
Fitted	LED3	1	17-21UYC/ \$530- A3/ TR8	Everlight	EL17-21UYC/ A2	LED, Yellow, Wave length=591nm, SMD 0805, ±70°	LED_12
Fitted	PCB1	1	A08-1572	NCAB	XPRO Extension Zigbit Carrier Board PCB	XPRO Extension Zigoit Carrier Board PCB	PCB
Fitted	PCBA	1		ESCATEC	XPRO Zigbit Carrier Board PCBA documentaion	PCBA documentation for XPRO Zigbit Carrier Board : A08-1572	DOCUMENTATION
Fitted	01	1	IRLML6402PBF	International Rectifier	IRLML6402PBF	P-CH. MOSFET30V, - 3.7A continuous,RDS(ON)=0.0 50hm@VGS=-4,5V, RDS(ON)=0.08Ohm@VG S=-2.5V	MOSFET_P_GSD
	7.	1	IRLIVIL6402PBF	International Rectiller		I nick film resistor, SIMD	
Fitted	R1, R2, R100	3			100k	0402, 1/16W, 1% Thick limitesistor, Sivid	[NoValue], [NoValue], R2
Fitted	R3, R4, R5	3			680R	0402, 1/16W, 1% Thick film resistor, SIVID	R2
Fitted	R8, R9	2			39R	0402, 1/16W, 1%	R2
Fitted	SW1, SW2	2	SKRAAKE010	ALPS	SKRAAKE010	6.2x6.2 mm SMD tact switch, same as A08-0091 but less force is needed	Can be ordered in low volumes from Mouser
Fitted	TEST1	1				XPRO Zigbit Carrier Board FixtureTest SW	TEST
Fitted	TESTDOC1	1					TESTDOC
Fitted	U100	1	ATSHA204-TSU-T	ATMEL	ATSHA204 SWI SOT23-3	ATSHA204 With 1-Wire interface and SOT23-3 package	ATSHA204_SOT23
Fitted	Z1	1	ATZB-S-1-256-1-0-C	ATMEL	ATZB-S-1-256-1-0-C	ZigBit With ATmega256RFR2	ATZB-S-1-256-1-0-C
Not Fitted	E4	0			FIDUCIAL 1.5mm	Fiducial point for PCB coordinates 1.5mm pad and 3mm hole in mask	
Not Fitted	R6, R7	0			0R	Thick film resistor, SIMD 0402, 1/16W, 1%	
Not Fitted	TP1, TP2, TP3	0			Test Pad	Single SMD testpad	