

PRELIMINARY

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DESIGN CONSIDERATIONS

DESIGN NOTE:  
Example text for informational  
design notes .

DESIGN NOTE:  
Example text for critical  
design notes.

DESIGN NOTE:  
Example text for cautionary  
design notes.

LAYOUT NOTE:  
Example text for critical  
layout guidelines.

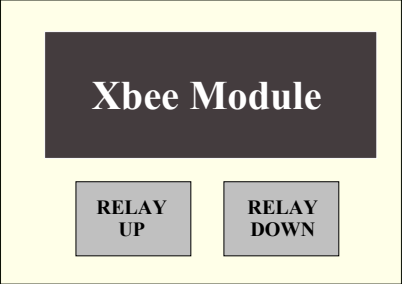
# XBeeO2

## (Block Diagram)

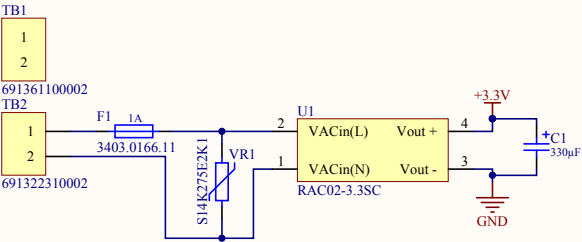
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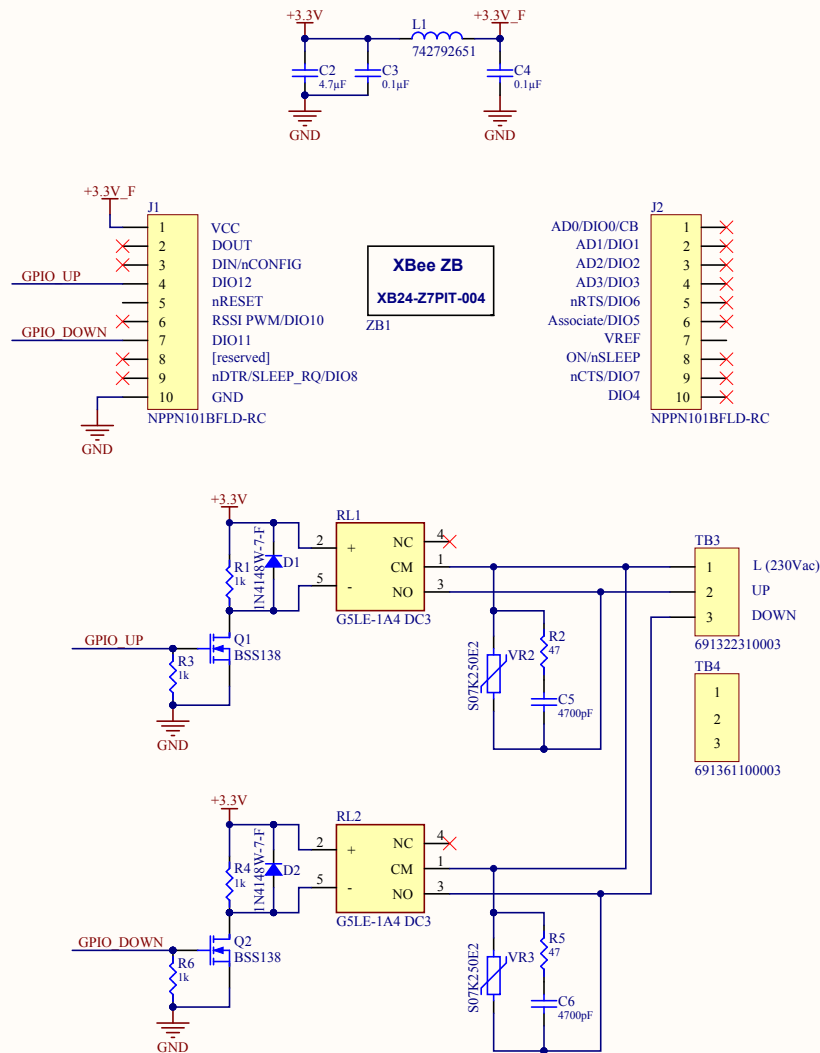
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POWER AC/DC



# XBEE MODULE



Pin #	Name	Direction	Default State	Description
1	VCC	-	-	Power supply
2	DOUT	Output	Output	UART Data Out
3	DIN / CONFIG	Input	Input	UART Data In
4	DIO12	Both	Disabled	Digital I/O 12
5	RESET	Both	Open-Collector with pull-up	Module Reset (reset pulse must be at least 200 ns)
6	RSSI PWM / DIO10	Both	Output	RX Signal Strength Indicator / Digital I/O
7	DIO11	Both	Input	Digital I/O 11
8	[reserved]	-	Disabled	Do not connect
9	DTR / SLEEP_RQ / DIO8	Both	Input	Pin Sleep Control Line or Digital I/O 8
10	GND	-	-	Ground
11	DIO4	Both	Disabled	Digital I/O 4
12	CTS / DIO7	Both	Output	Clear-to-Send Flow Control or Digital I/O 7. CTS, if enabled, is an output.
13	ON / SLEEP	Output	Output	Module Status Indicator or Digital I/O 9
14	VREF	Input	-	Not used for EM250. Used for programmable secondary processor. For compatibility with other XBEE modules, we recommend connecting this pin voltage reference if Analog sampling is desired. Otherwise, connect to GND.
15	Associate / DIO5	Both	Output	Associated Indicator, Digital I/O 5
16	RTS / DIO6	Both	Input	Request-to-Send Flow Control, Digital I/O 6. RTS, if enabled, is an input.
17	AD3 / DIO3	Both	Disabled	Analog Input 3 or Digital I/O 3
18	AD2 / DIO2	Both	Disabled	Analog Input 2 or Digital I/O 2
19	AD1 / DIO1	Both	Disabled	Analog Input 1 or Digital I/O 1
20	AD0 / DIO0 / Commissioning Button	Both	Disabled	Analog Input 0, Digital I/O 0, or Commissioning Button

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A	<div>DOC: REVISION HISTORY</div>				A
B					B
C					C
D	<div>CLOCKS(CPU &amp; PCIE)</div> <div>XBeeO2</div> <div>[05] - DOC REVISION HISTORY.SchDoc</div> <div>Date: 11/05/2014Rev: V111Sheet: 5 Of 7</div> <div>Cannot open file C:\Users\oscar.gomez\Desktop\iElectronic\Desig... in E:\Tools &amp; Resources</div>				D
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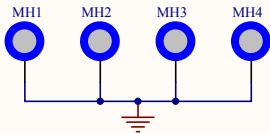
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MECHANICAL

PCB

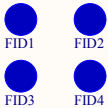


MOUNTING HOLES



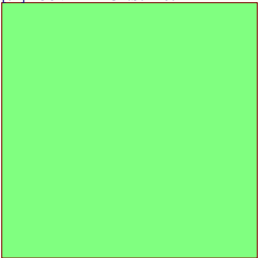
Mounting holes 5mm pad 2.2mm drill  
BOARD MOUNTING HOLES - ONE IN EACH CORNER

FIDUCIALS

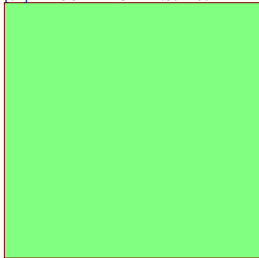


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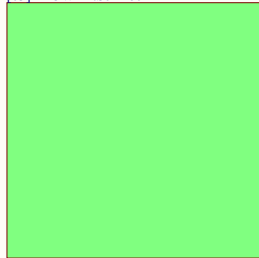
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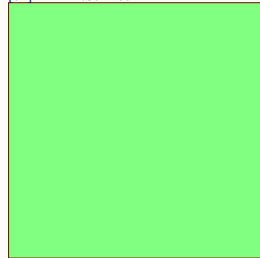
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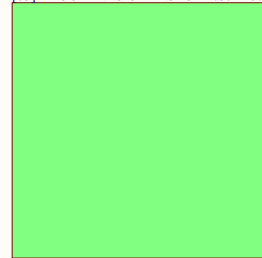
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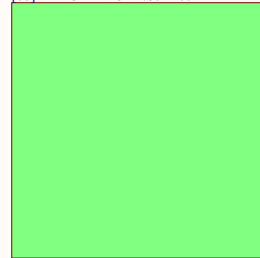
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[05] - DOC REVISION HISTORY.SchDoc  
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[06] - MECHANICAL.SchDoc  
[06] - MECHANICAL.SchDoc



# TEMPLATE NOTES

## Set Project Parameters

- 1) Go to Project -> Project Options -> Parameters
- 2) Set Company, Project and VersionRevision

## Mark Not Fitted Components as

**NF**

## Net Class Example



## Differential signal example

TITLE Examples (You can change the color to reflect your company color)

# PAGE TITLE

*Peripheral / Group of component title*

*Smaller Ttitle*

## Schematic Status Explanation

**DRAFT** - Very early stage of schematic, ignore details.

**PRELIMINARY** - Close to final schematic.

**CHECKED** - There should not be any mistakes. Tell the engineer if you find one.

**RELEASED** - A board with this schematic has been sent to production.

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