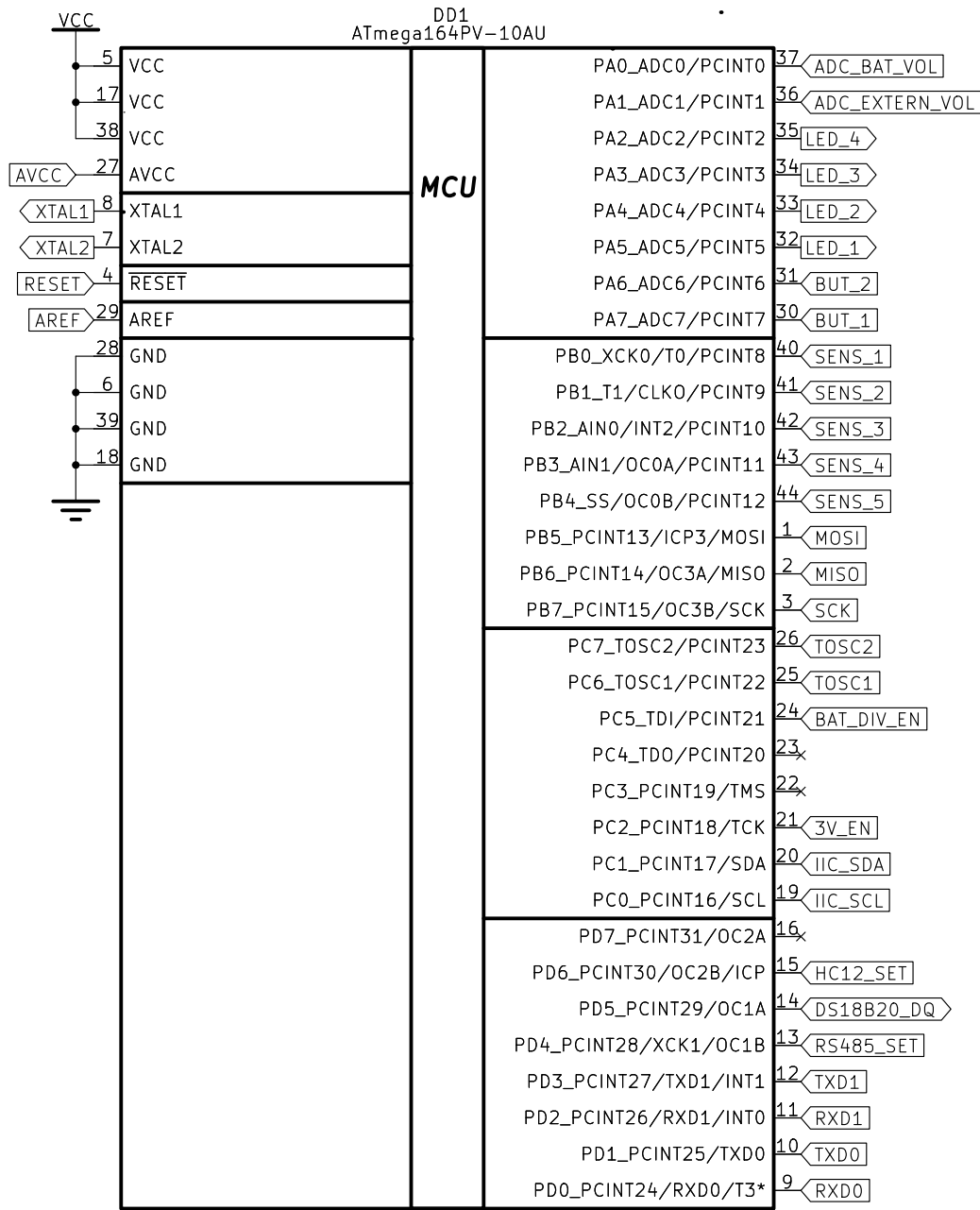
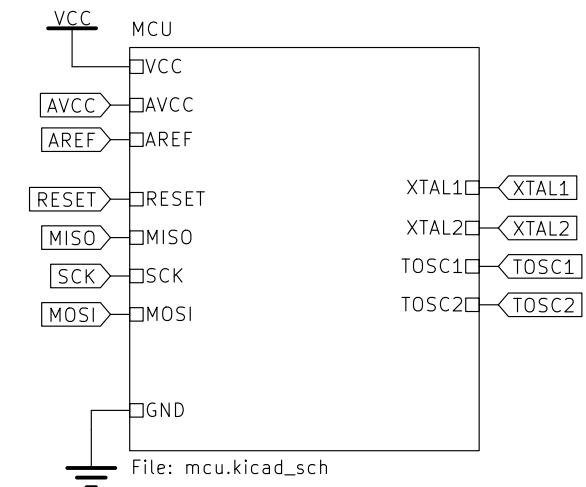


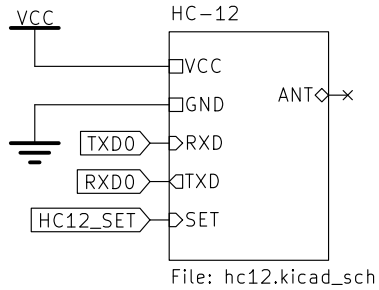
MCU



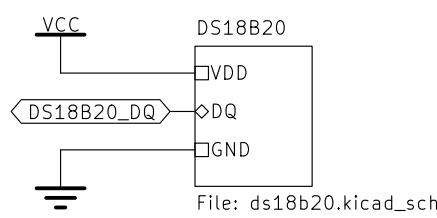
MCU Components



RF Module

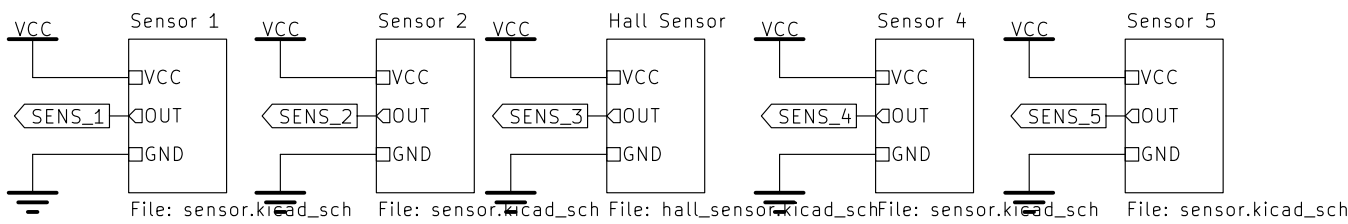


Temperature Sensor

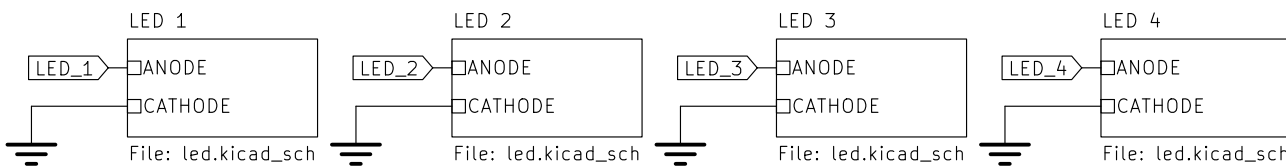


Sensors

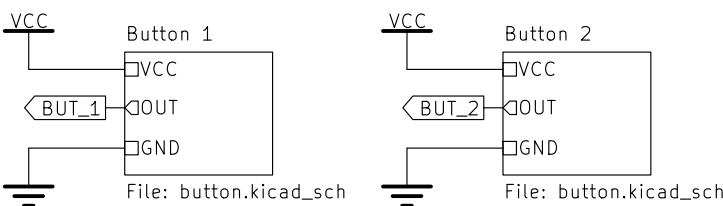
Hall-sensor



Indicators

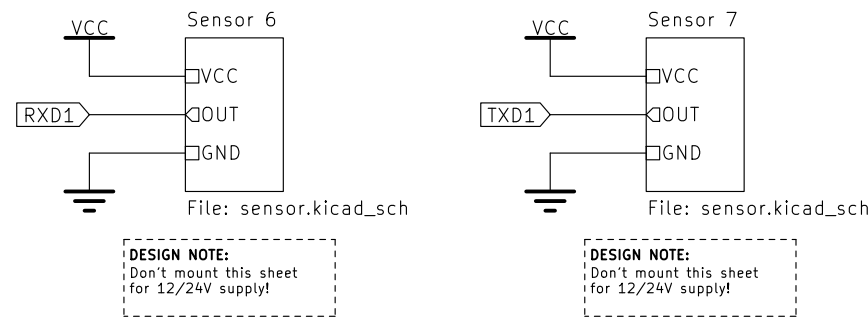


Buttons

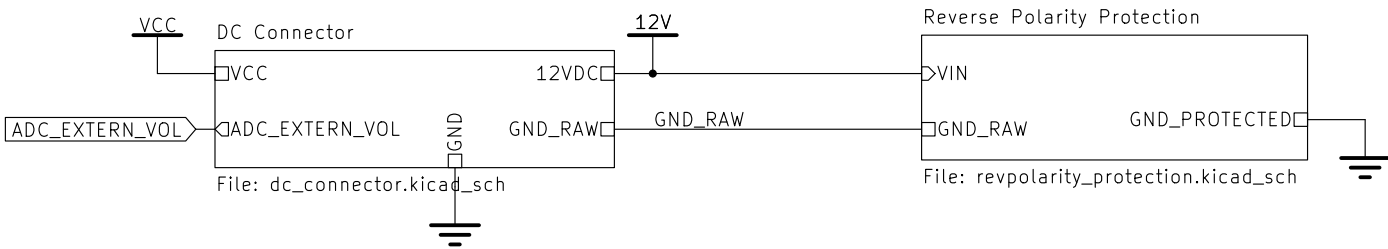


Additional Feature

Hall Sensor 1 Hall Sensor 2

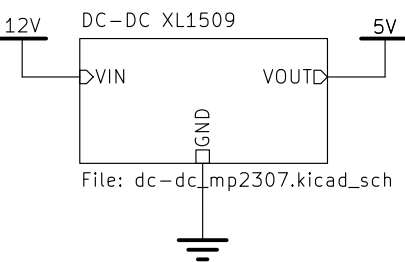


External Voltage Input

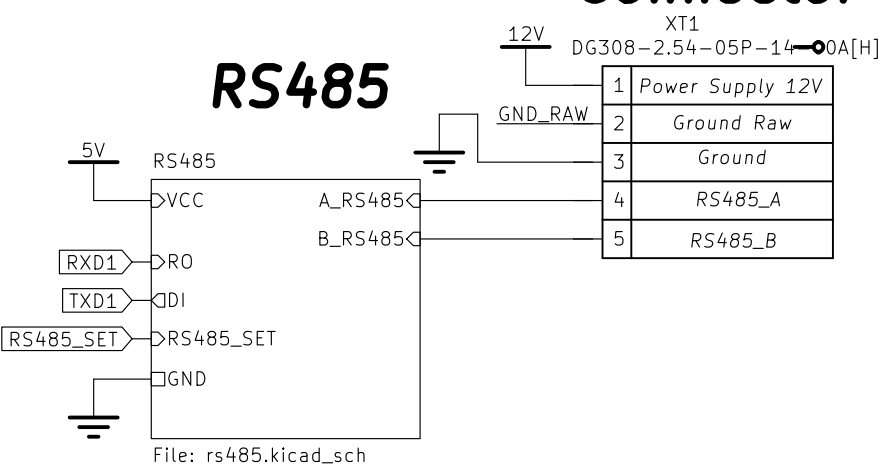


Reverse Polarity Protection

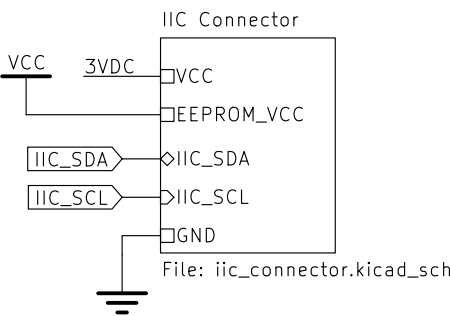
DC-DC 5V



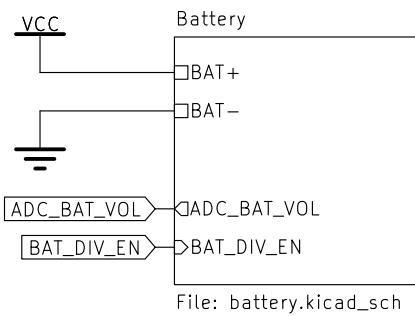
External Voltage Connector



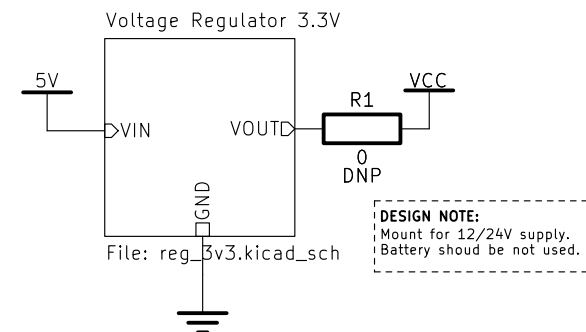
IIC Sensors and EEPROM



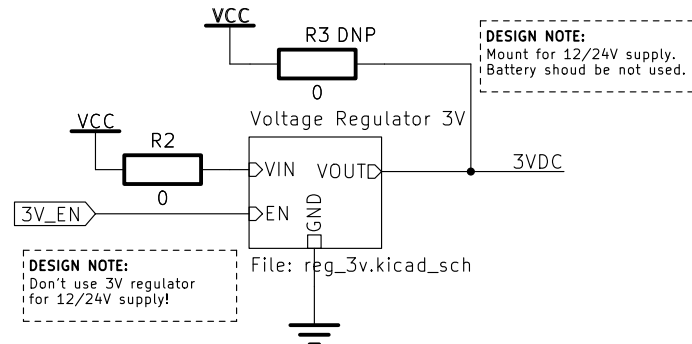
Battery



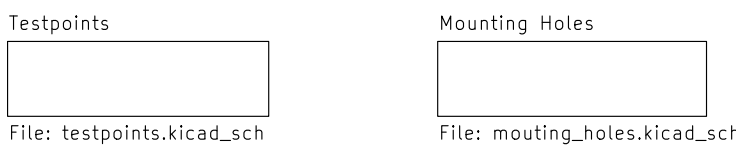
Voltage Regulator 3.3V



Voltage Regulator 3.0V



Testpoints Mounting Holes



Responsible dept.	Technical reference	Document type	Document status
	Created by	Electrical Circuit	
	Approved by	Title, Supplementary title	
		Remote Sensor	Rev. Date of issue Lang. Sheet
			2022-09-16 1/27

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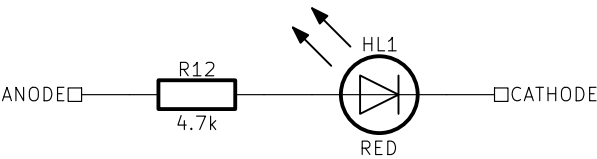
A

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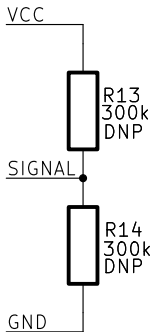
Indicator Diode



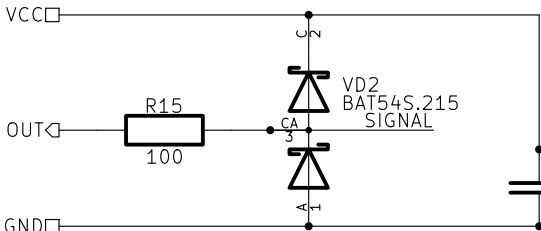
Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
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Sensor Connector

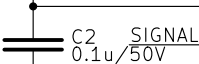
Pull-up/Pull-down



ESD Protection

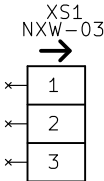


Decoupling capacitor



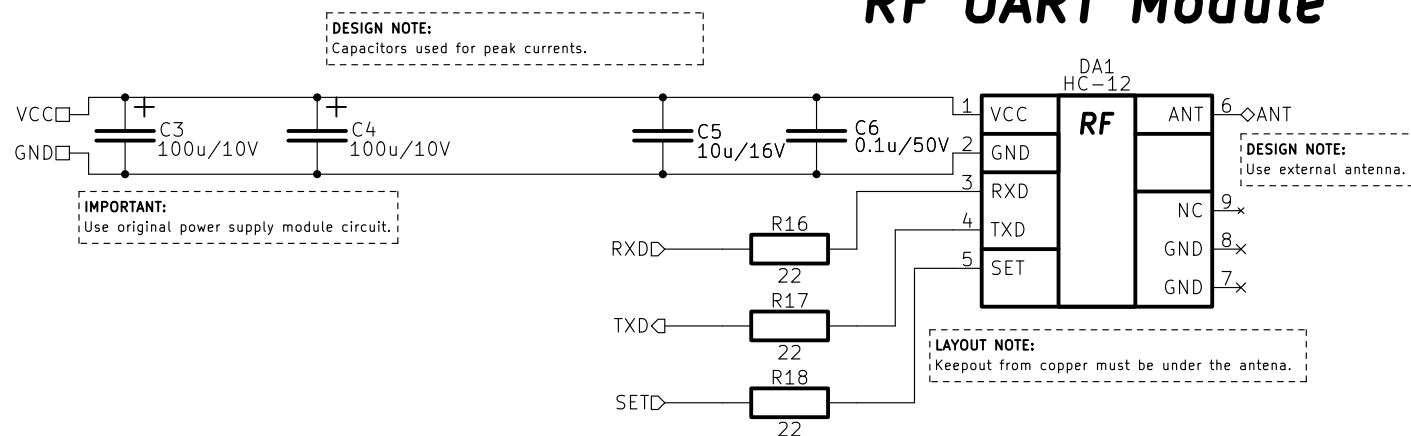
Connector

XT2 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



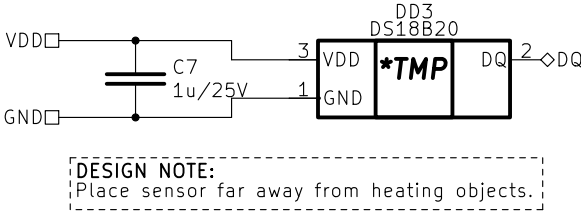
Responsible dept.	Technical reference	Document type		Document status			
	Created by	Title, Supplementary title					
	Approved by			Rev.	Date of issue	Lang.	Sheet
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RF UART Module

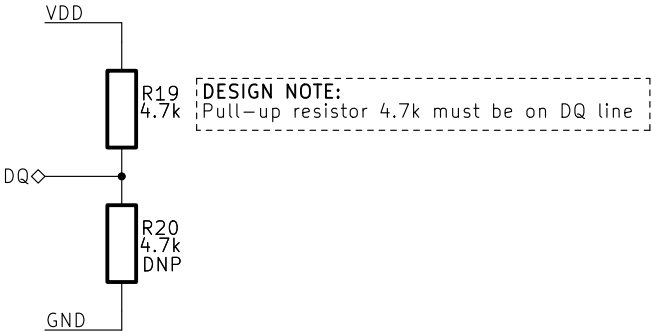


Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
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Temperature Sensor



Pull-up/Pull-down



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	Approved by			Rev.	Date of issue	Lang.	Sheet
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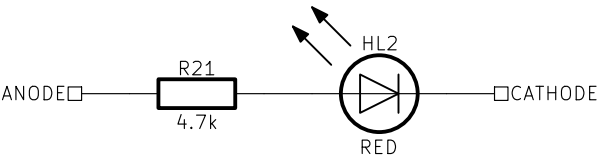
A

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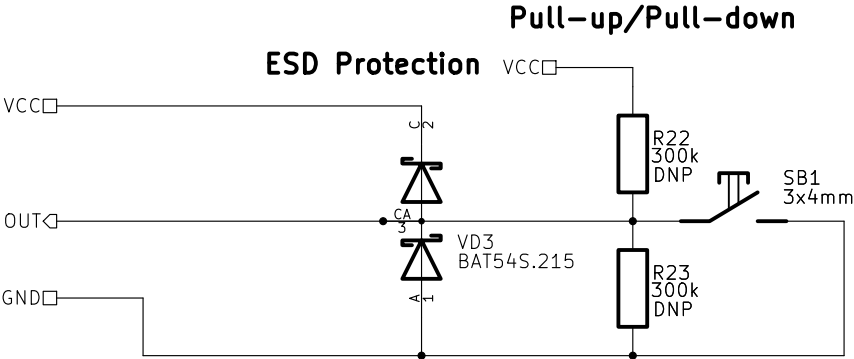
D

Indicator Diode



Responsible dept.	Technical reference	Document type	Document status			
	Created by	Title, Supplementary title				
	Approved by			Rev.	Date of issue	Lang. Sheet
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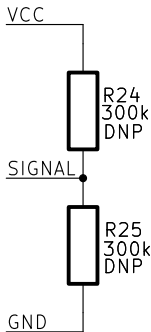
Button



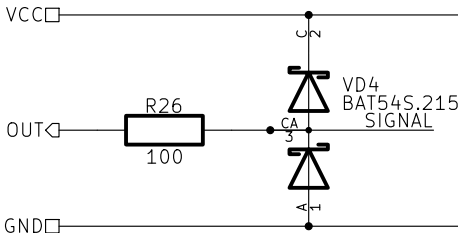
Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
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Sensor Connector

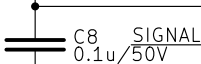
Pull-up/Pull-down



ESD Protection

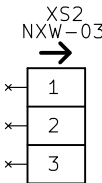


Decoupling capacitor



Connector

XT3 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



Responsible dept.	Technical reference	Document type	Document status			
	Created by	Title, Supplementary title				
	Approved by		Rev.	Date of issue	Lang.	Sheet
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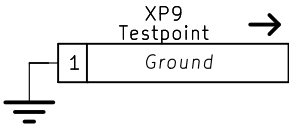
A

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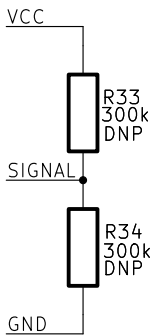
Testpoints



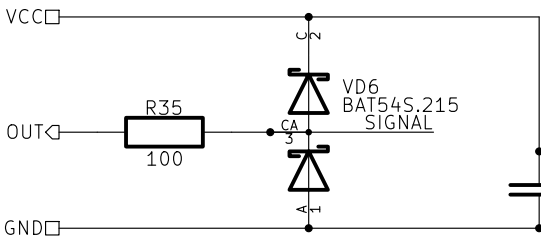
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	Approved by		
		Rev.	Date of issue
		Lang.	Sheet
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Sensor Connector

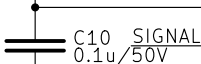
Pull-up/Pull-down



ESD Protection

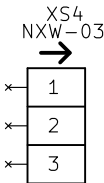


Decoupling capacitor



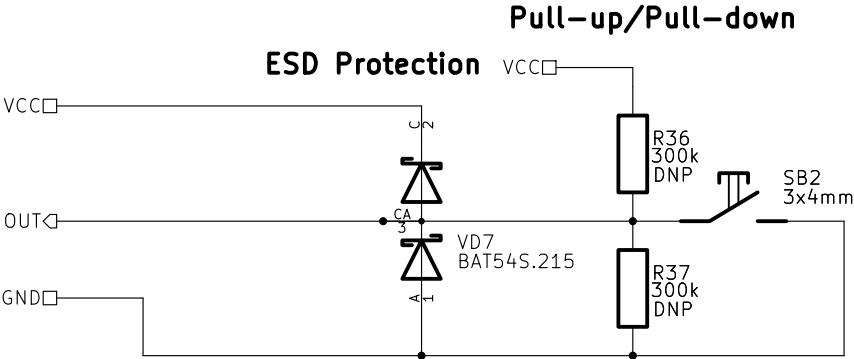
Connector

XT5 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
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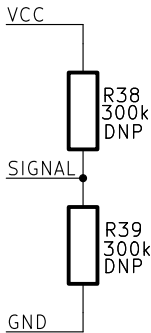
Button



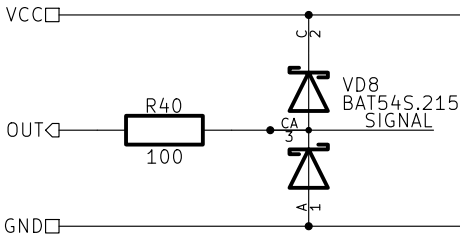
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	Created by	Title, Supplementary title					
	Approved by			Rev.	Date of issue	Lang.	Sheet 12/27

Sensor Connector

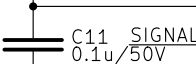
Pull-up/Pull-down



ESD Protection

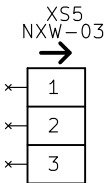


Decoupling capacitor



Connector

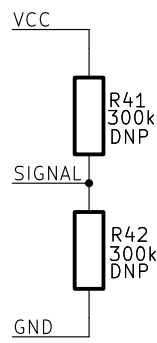
XT6 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



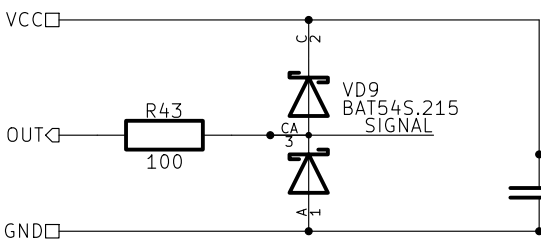
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	Created by	Title, Supplementary title					
	Approved by			Rev.	Date of issue	Lang.	Sheet
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Sensor Connector

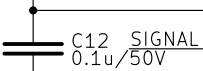
Pull-up/Pull-down



ESD Protection

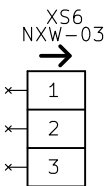


Decoupling capacitor



Connector

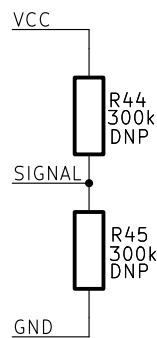
XT7 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



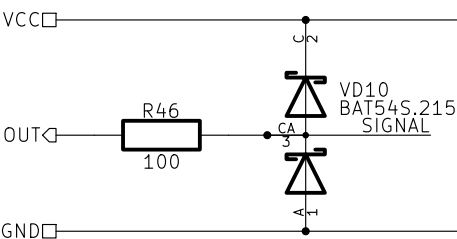
Responsible dept.	Technical reference	Document type		Document status			
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	Approved by			Rev.	Date of issue	Lang.	Sheet
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Sensor Connector

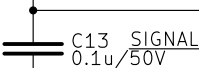
Pull-up/Pull-down



ESD Protection

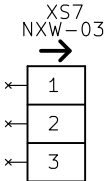


Decoupling capacitor



Connector

XT8 NXW-03	
1	Input Voltage
2	Signal Output
3	Ground



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	Created by	Title, Supplementary title					
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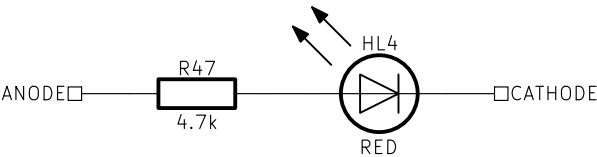
A

B

C

D

Indicator Diode



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	Approved by		Rev. Date of issue Lang. Sheet
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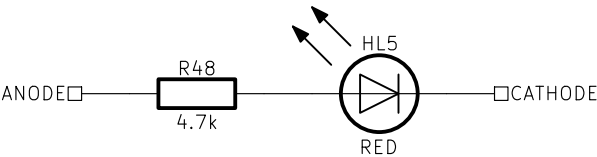
A

B

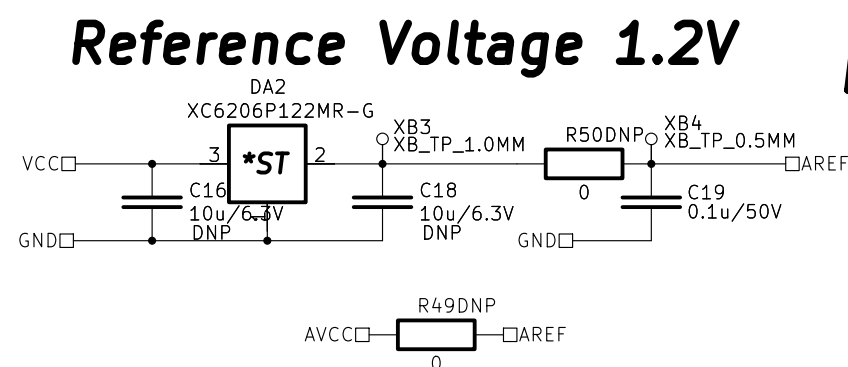
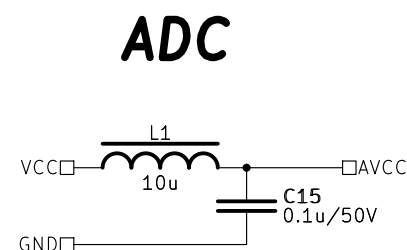
C

D

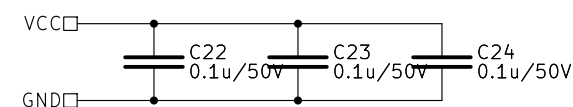
Indicator Diode



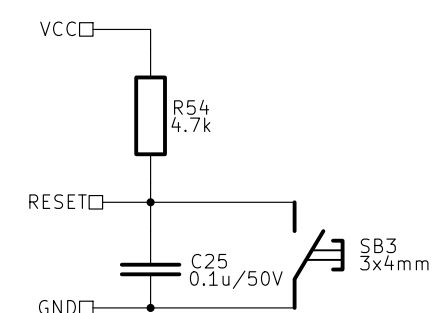
Responsible dept.	Technical reference	Document type	Document status			
	Created by	Title, Supplementary title				
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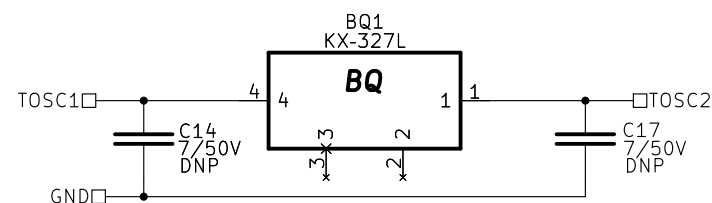
Decoupling Capacitors



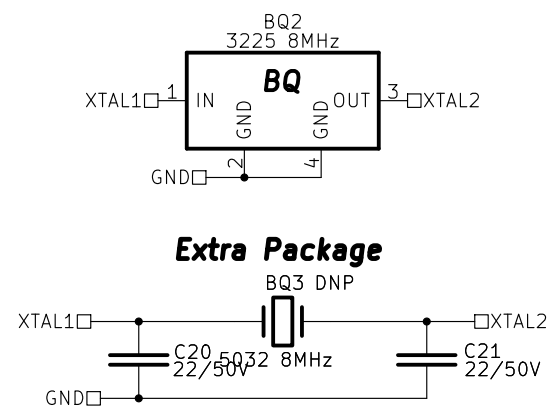
Reset



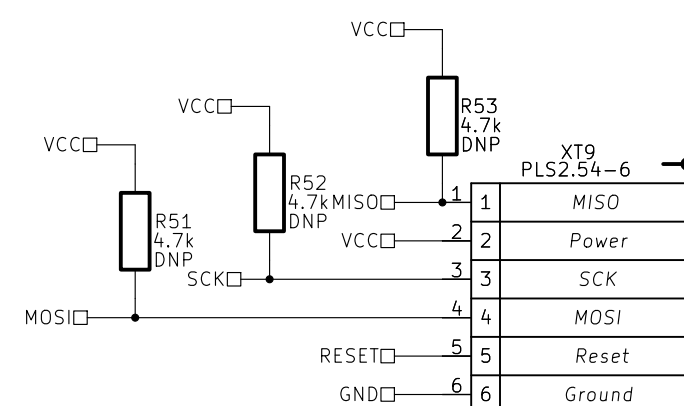
Low-speed Crystal



High-speed Crystal

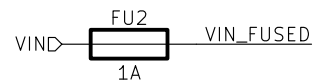


Flashing (ICSP)



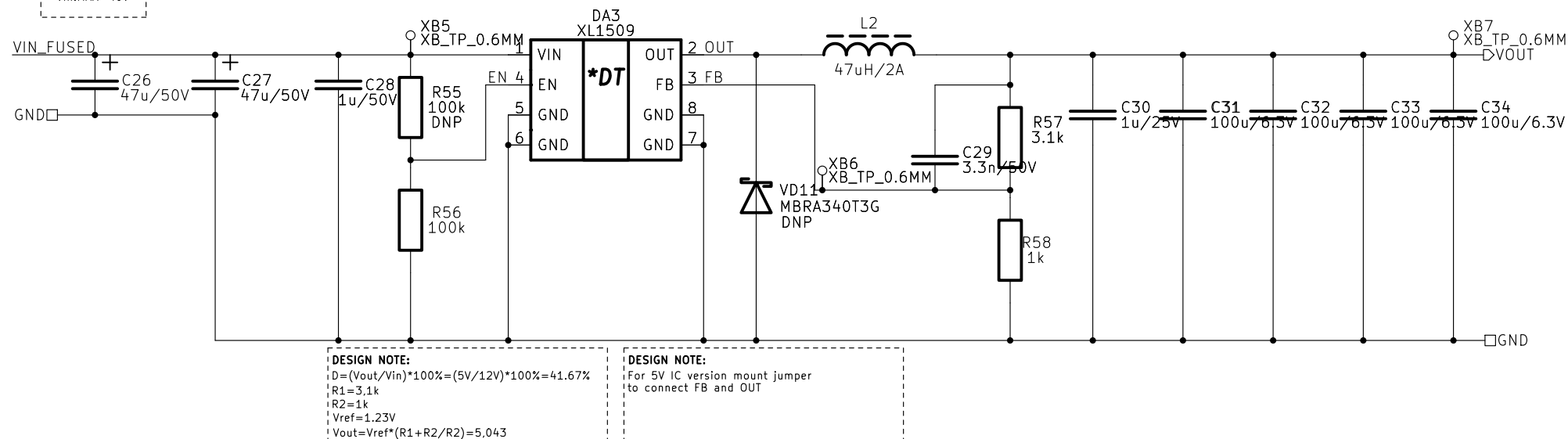
Responsible dept.	Technical reference	Document type		Document status			
	Created by	Title, Supplementary title					
	Approved by						
				Rev.	Date of issue	Lang.	Sheet 20/27

DESIGN NOTE:
Protection fuse



DESIGN NOTE:
Vin.MIN=5.5V
Vin.MAX=40V

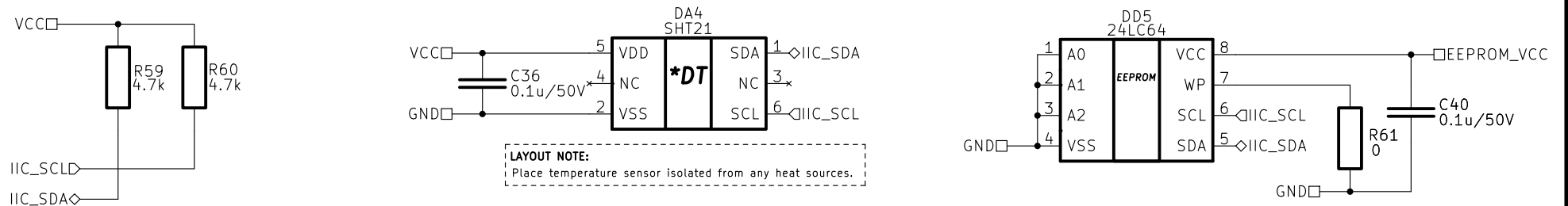
DC-DC Buck Converter



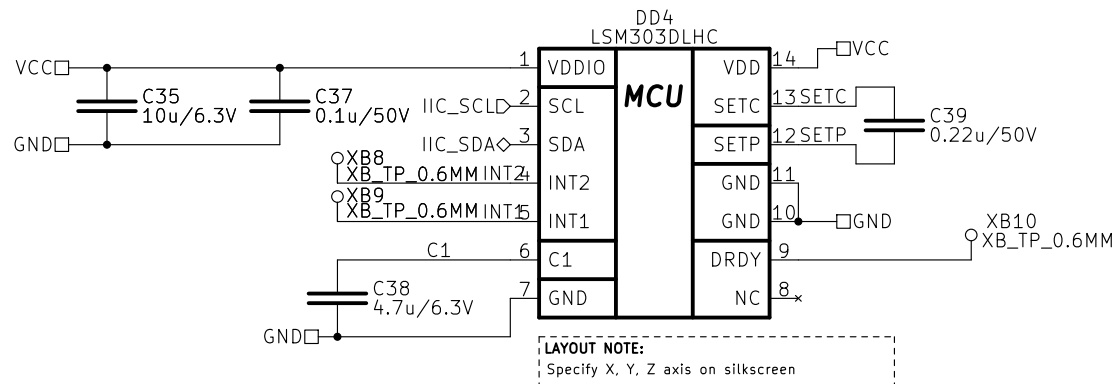
Responsible dept.	Technical reference	Document type	Document status
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	Approved by		Rev. Date of issue Lang. Sheet
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IIC Sensors

Pull-up Temperature and Humidity Sensor IIC EEPROM

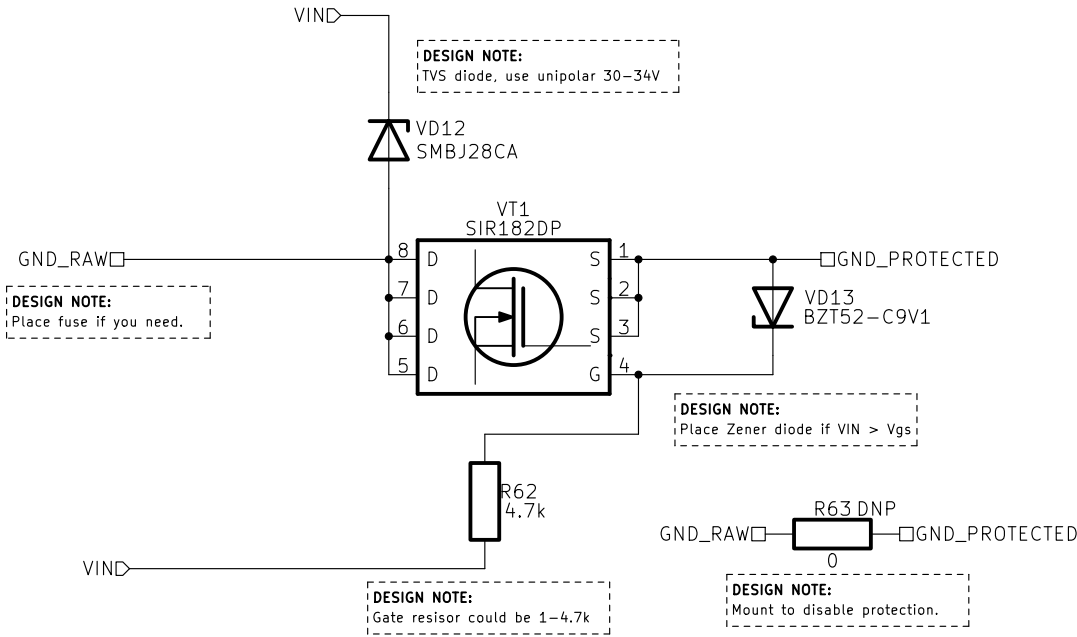


3D accelerometer and 3D magnetometer



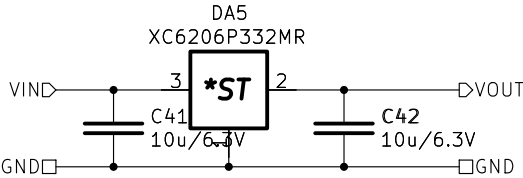
Responsible dept.	Technical reference	Document type		Document status			
	Created by	Title, Supplementary title					
	Approved by						
		Rev.	Date of issue	Lang.	Sheet		
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Reverse Polarity Protection



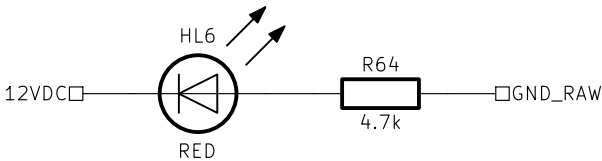
Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
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Voltage Regulator 3.3V 0.2A

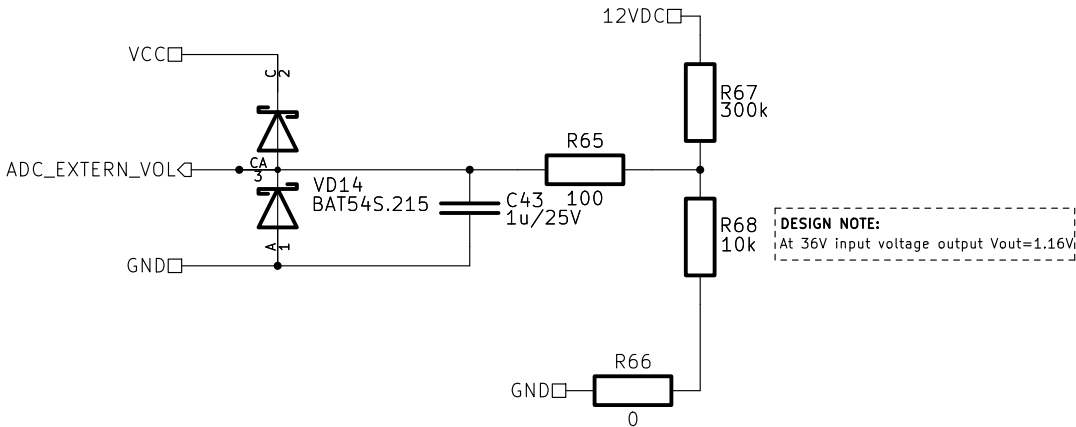


Responsible dept.	Technical reference	Document type	Document status
	Created by	Title, Supplementary title	
	Approved by		Rev. Date of issue Lang. Sheet
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Power Indicator



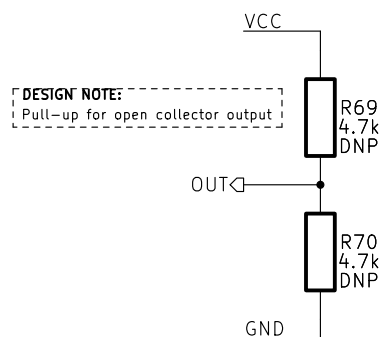
External Supply Voltage Divider



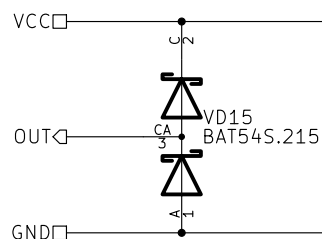
Responsible dept.	Technical reference	Document type	Document status
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	Approved by		Rev. Date of issue Lang. Sheet
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Sensor Connector

Pull-up/Pull-down



ESD Protection



Decoupling capacitor

C44
0.1u/50V

Connector

XT10
NXW-03

1	Input Voltage
2	Ground
3	Signal Output

XS8
NXW-03

1
2
3

XP22
NXG-T

XP23
NXG-T

XP24
NXG-T

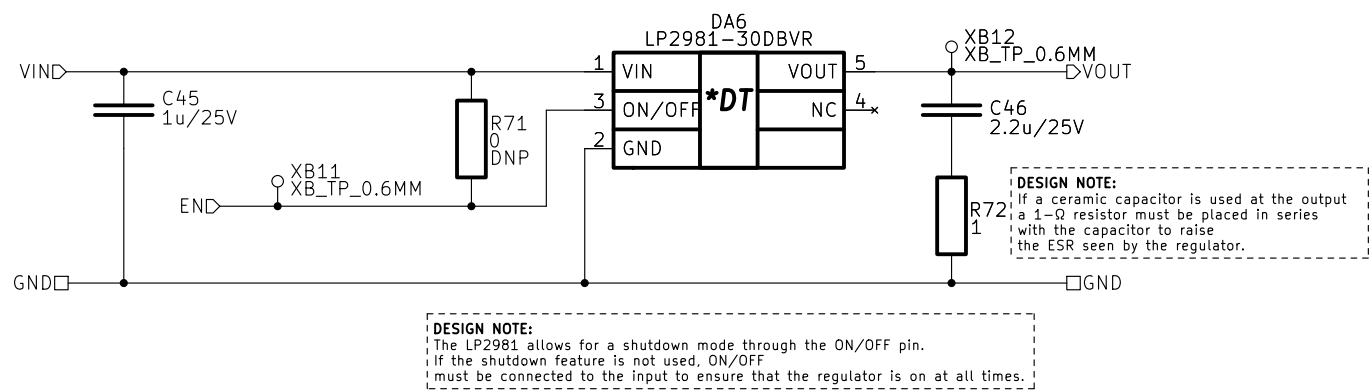
DESIGN NOTE:

Ultra-Low-Power Digital-Switch Hall Effect Sensor
DRV5032FDBZT HALL SENSOR is recommended
20-Hz and 5-Hz sampling rate options
VCC = 1.65-V to 5.5-V



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Voltage Regulator 3.0V 0.2A



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	Approved by			Rev.	Date of issue	Lang.	Sheet
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A

B

C

D

Mounting Holes

×1  J1
Spacer M2

×1  J2
Spacer M2

×1  J3
Spacer M2

×1  J4
Spacer M2

×1  J5
Spacer M2

×1  J6
Spacer M2

Responsible dept.	Technical reference	Document type	Document status
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	Approved by		
		Rev.	Date of issue Lang. Sheet
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