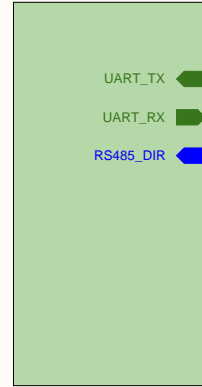
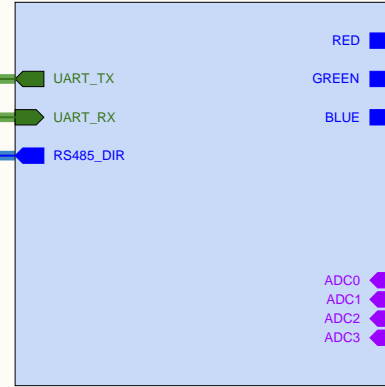


External RS485 communication port.

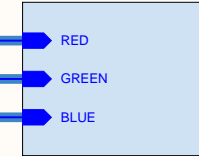
#### RS485 Communication Layer



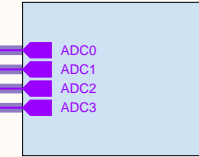
#### MCU Layer




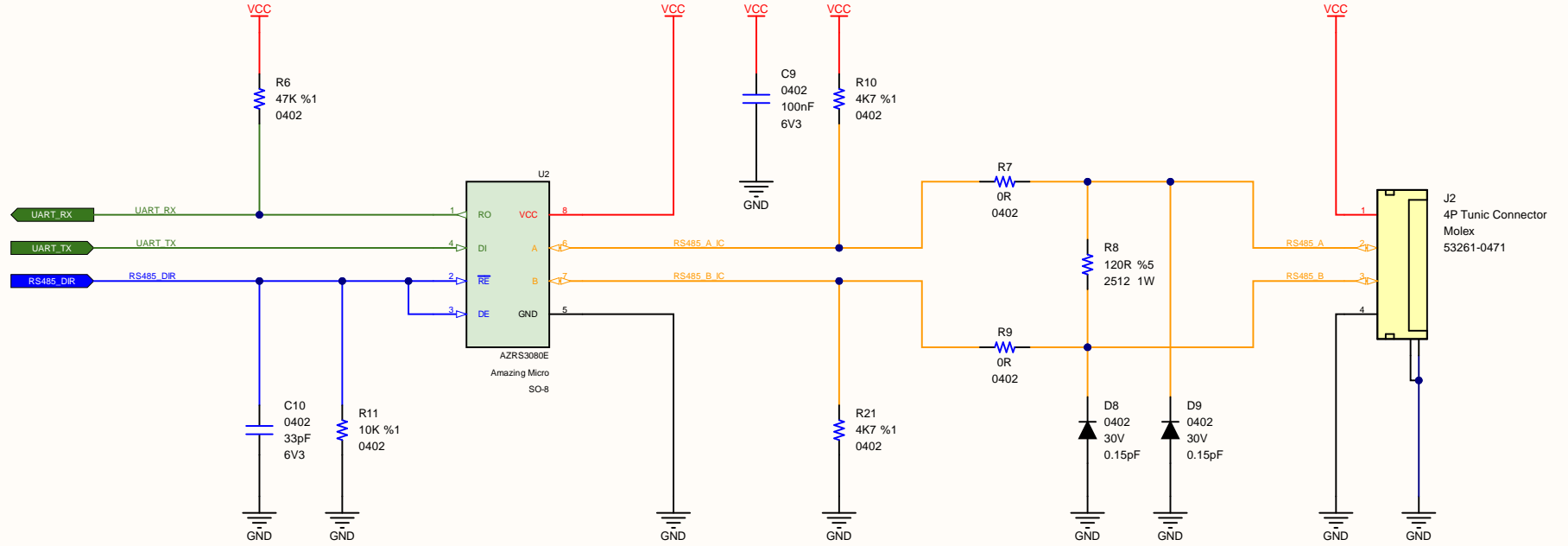
#### LED Indicator



#### Soil Temperature Sensors



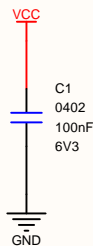
B153AA Block Diagram			Engineer : Gunce Akkoyun	STF Res-Dev  Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
			Customer : STF Irrigation		
Size : A4	Project : P101DA		Product ID : P101DA		
			Module ID : B153AA		
Date : 15.09.2022	Time : 17:20:44	Page : 1 / 5	Version : R1		
File : Block_Diagram.SchDoc			Revision : 00.00.01		



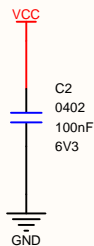
B152AA module have a on-board MCU  
for measuring counter and transmit  
value to main unit.

MCU works on 3V3 voltage level and  
use internal 8 MHz osillator.

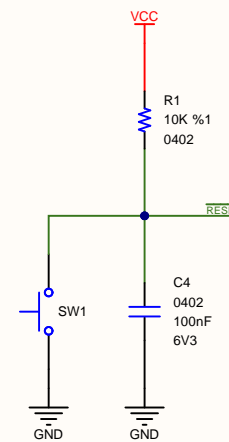
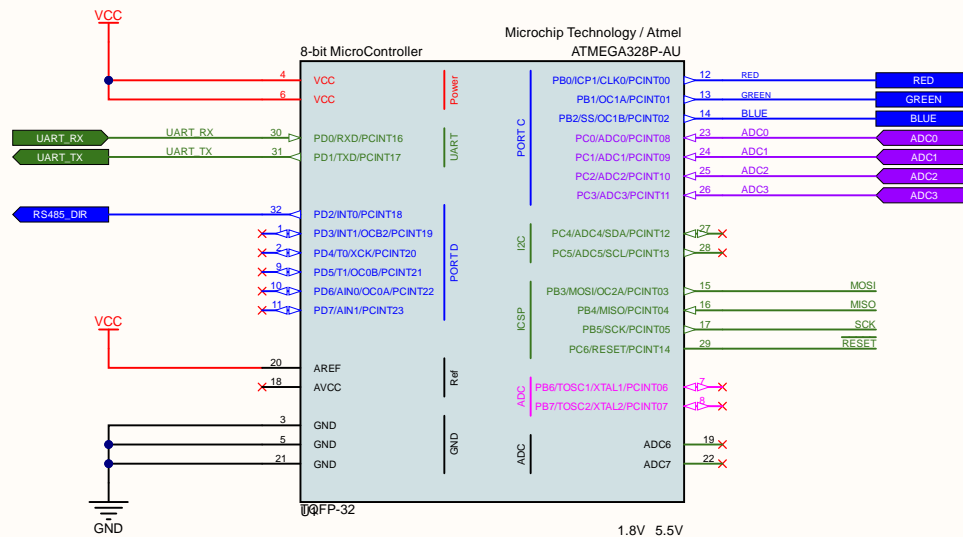
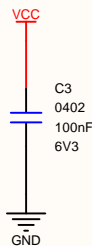
By-Pass Capacitor  
Close to Atmega328P  
Pin-4 (Vcc)



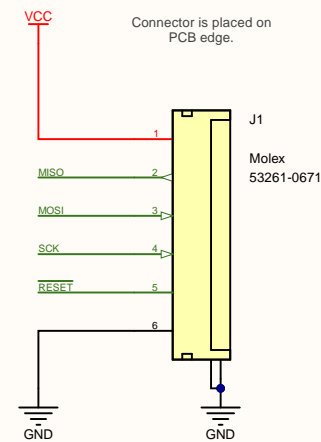
By-Pass Capacitor  
Close to Atmega328P  
Pin-6 (Vcc)



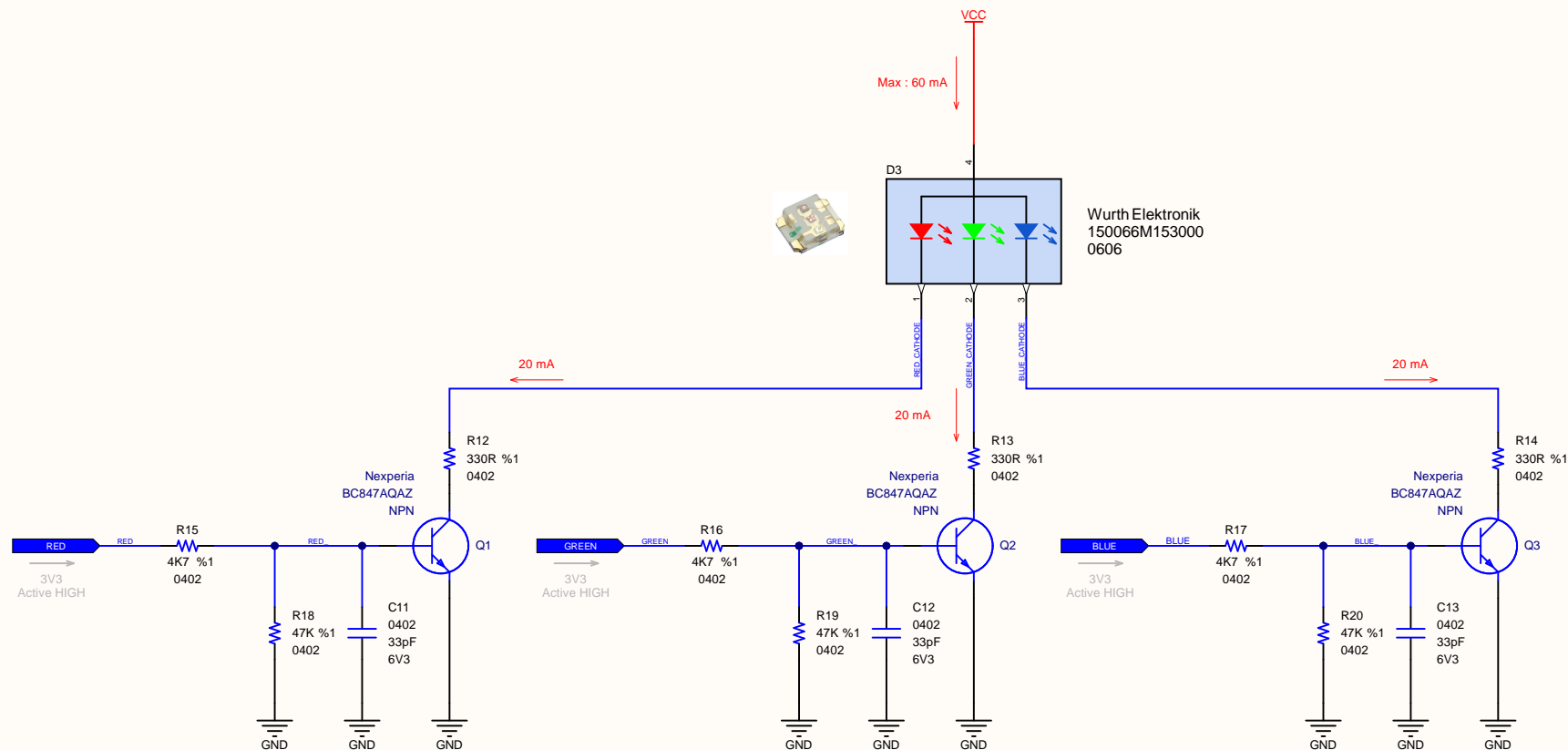
By-Pass Capacitor  
Close to Atmega328P  
Pin-18 (Avcc)



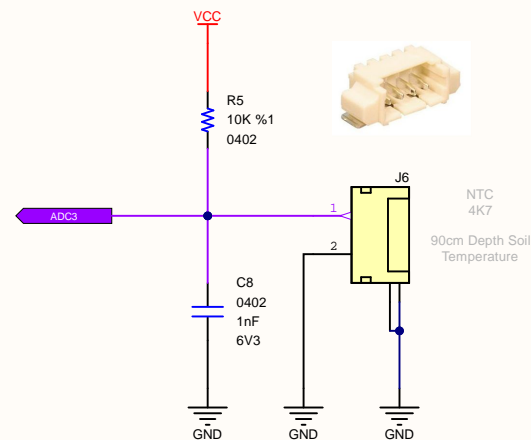
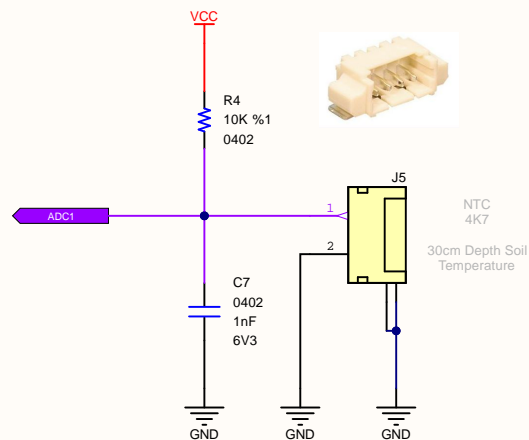
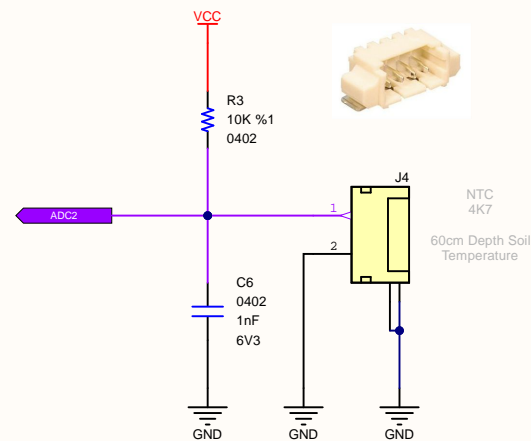
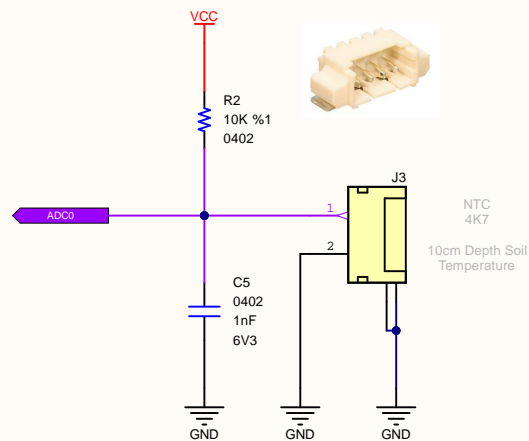
MCU Reset Line.  
Pull-up.




MicroController			Engineer : <a href="#">Gunce Akkoyun</a>	<b>STF Res-Dev</b> Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye
Size : <a href="#">A4</a>	Project : <a href="#">P101DA</a>		Customer : <a href="#">STF Irrigation</a>	
Date : <a href="#">15.09.2022</a>	Time : <a href="#">17:20:44</a>	Page : <a href="#">3 / 5</a>	Product ID : <a href="#">P101DA</a>	
File : <a href="#">MicroController.SchDoc</a>			Module ID : <a href="#">B153AA</a>	
			Version : <a href="#">R1</a>	
			Revision : <a href="#">00.00.01</a>	



<b>MCU LED Layer</b>			Engineer : <a href="#">Günce Akkoyun</a>	<b>STF Res-Dev</b> Büyük Kayacık Mah. 4. OSB 103. Cad. No : 12 Selçuklu / Konya Türkiye
Size : <a href="#">A4</a>	Project : <a href="#">P101DA</a>		Customer : <a href="#">STF Irrigation</a>	
Date : <a href="#">15.09.2022</a>	Time : <a href="#">17:20:44</a>	Page : <a href="#">4 / 5</a>	Product ID : <a href="#">P101DA</a>	
File : <a href="#">LED Inducator.SchDoc</a>			Module ID : <a href="#">B153AA</a>	
			Version : <a href="#">R1</a>	
			Revision : <a href="#">00.00.01</a>	



Soil Temperature Sensors			Engineer : <a href="#">Gunce Akkoyun</a>	<b>STF Res-Dev</b> Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : <a href="#">A4</a>			Customer : <a href="#">STF Irrigation</a>		
Project : <a href="#">P101DA</a>			Product ID : <a href="#">P101DA</a>		
Date : <a href="#">15.09.2022</a>			Module ID : <a href="#">B153AA</a>		
Time : <a href="#">17:20:44</a>			Version : <a href="#">R1</a>		
Page : <a href="#">5 / 5</a>			Revision : <a href="#">00.00.01</a>		
File : <a href="#">Soil Temperature Sensors.SchDoc</a>					