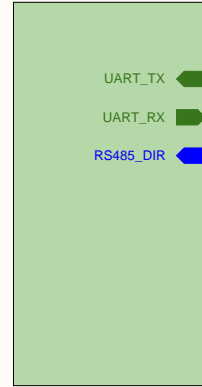
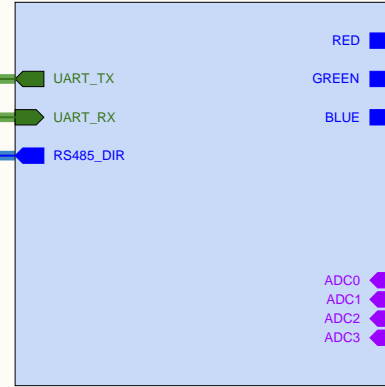


External RS485 communication port.

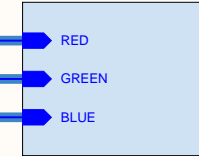
#### RS485 Communication Layer



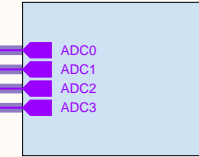
#### MCU Layer




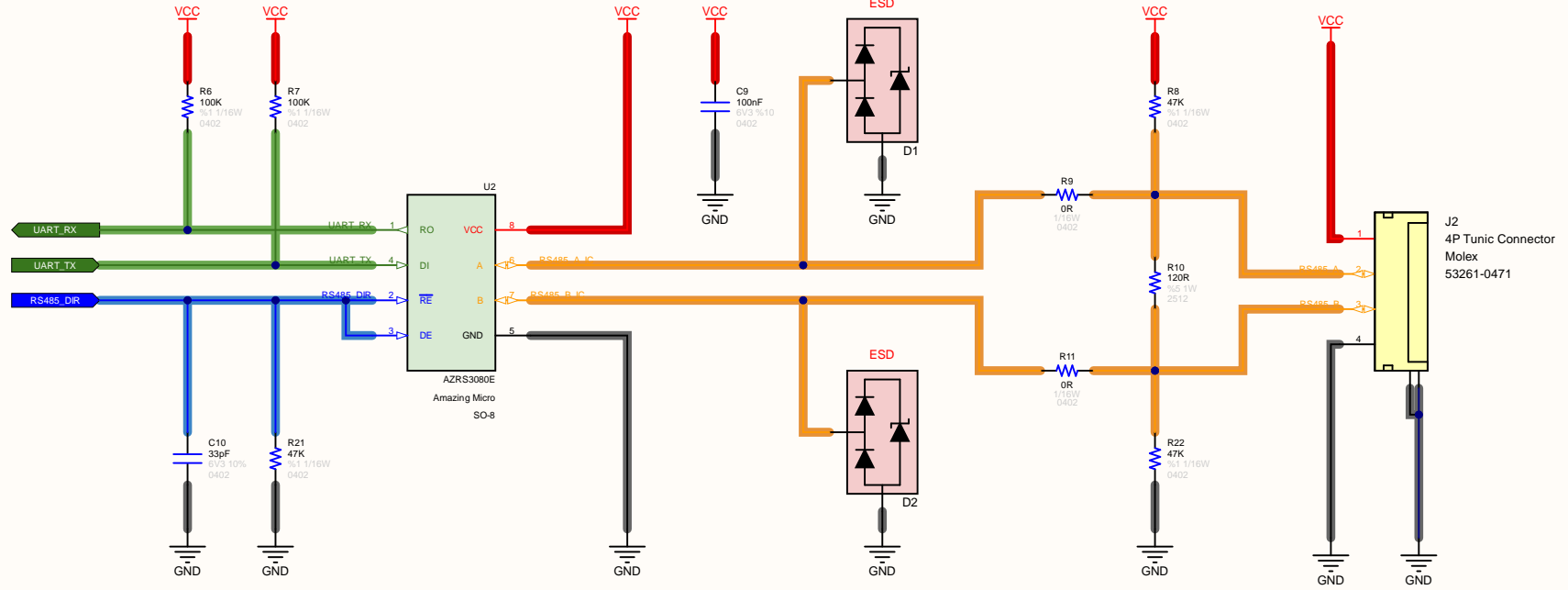
#### LED Indicator




#### 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 : 30.09.2022	Time : 11:21:33	Page : 1 / 5	Version : R1		
File : Block_Diagram.SchDoc			Revision : 00.00.01		

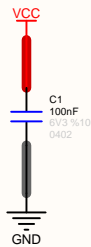


RS485 Communication Layer			Engineer : <a href="#">Günce Akkoyun</a>	<b>STF Res-Dev</b> Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : <a href="#">A4</a>	Project : <a href="#">P101DA</a>		Customer : <a href="#">STF Irrigation</a>		
Date : <a href="#">30.09.2022</a>	Time : <a href="#">11:21:33</a>	Page : <a href="#">2 / 5</a>	Product ID : <a href="#">P101DA</a>		
File : <a href="#">RS485 Communication Layer.SchDoc</a>			Module ID : <a href="#">B153AA</a>		
			Version : <a href="#">R1</a>		
			Revision : <a href="#">00.00.01</a>		

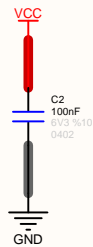
B152AA module have a on-board MCU  
for measuring counter and transmit  
value to main unit.

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

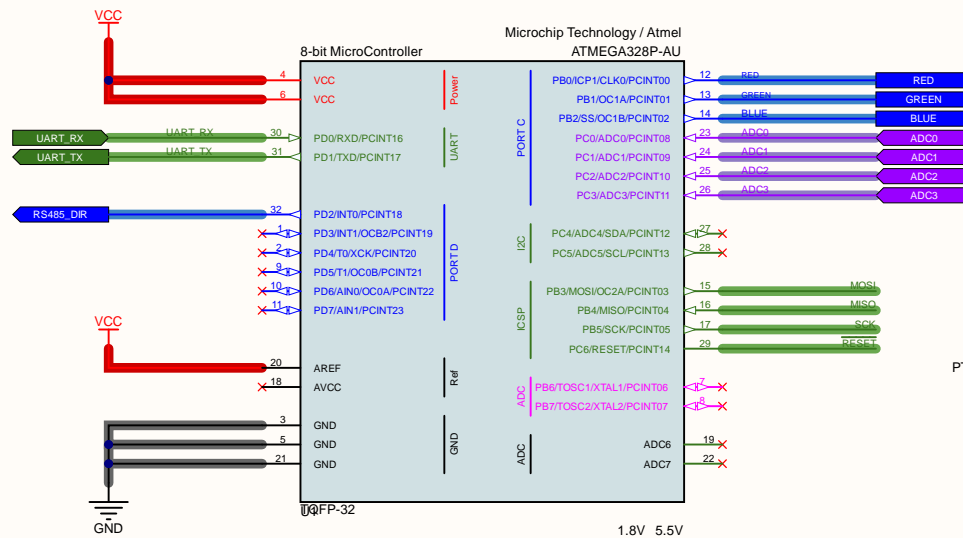
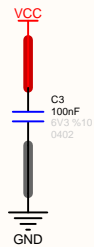
By-Pass Capacitor  
Close to Atmega328P  
Pin-4 (Vcc)



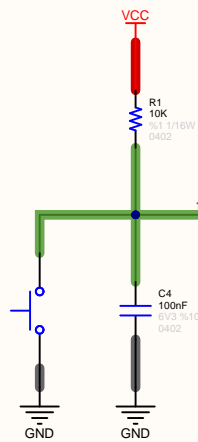
By-Pass Capacitor  
Close to Atmega328P  
Pin-6 (Vcc)



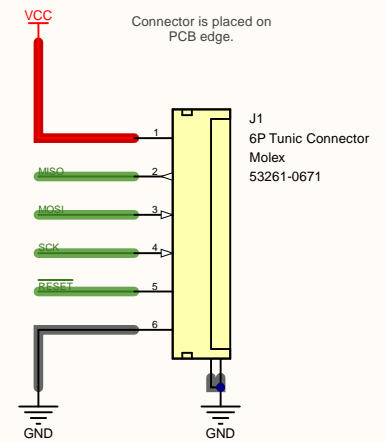
By-Pass Capacitor  
Close to Atmega328P  
Pin-18 (Avcc)



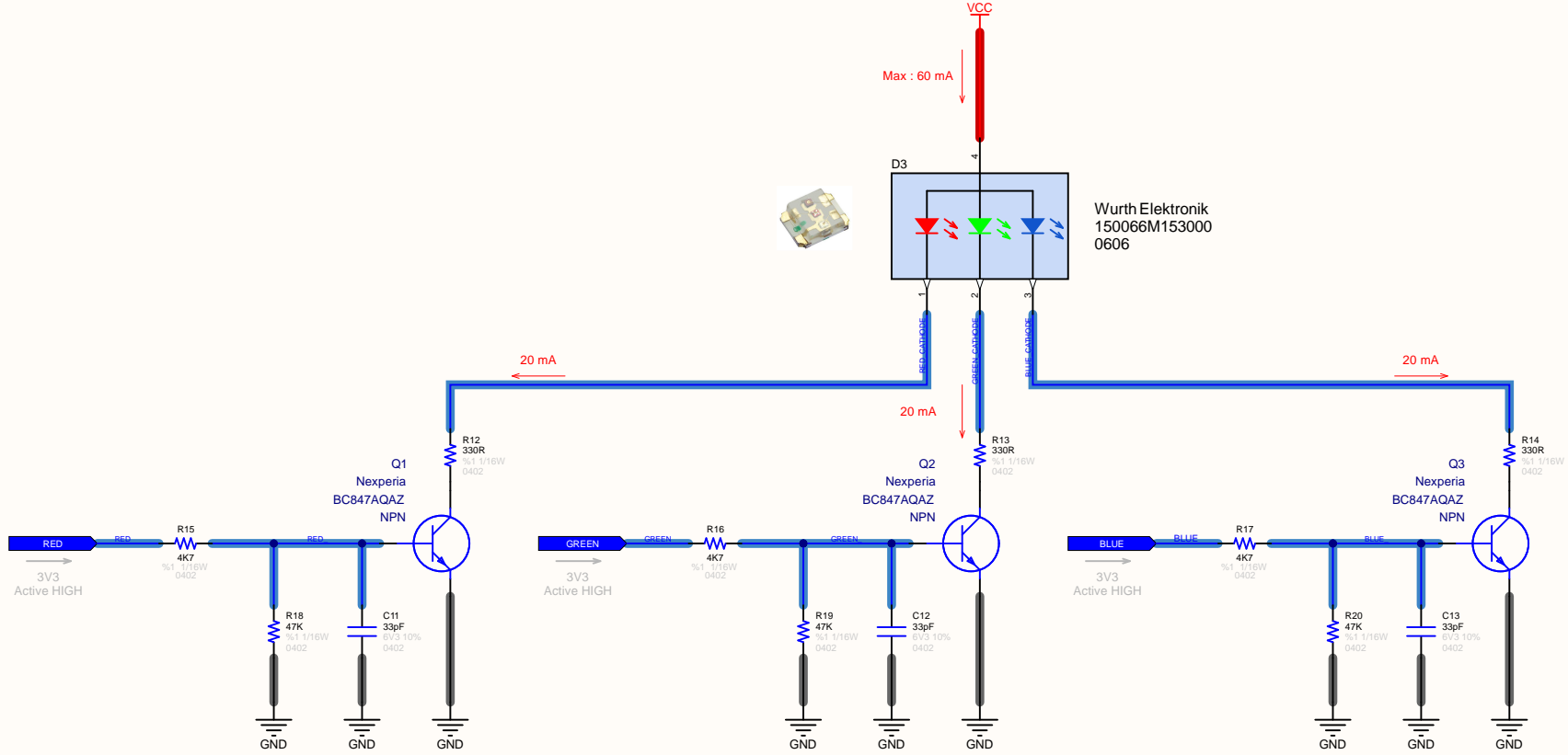
SW1  
C&K Switches  
PTS526SK08SMTR2LFS



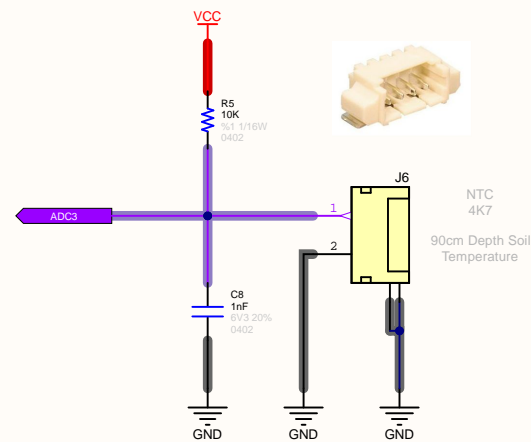
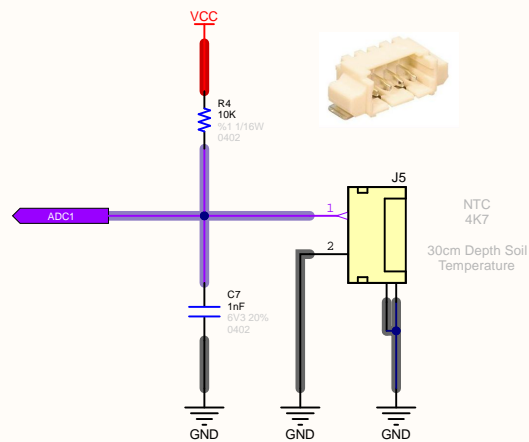
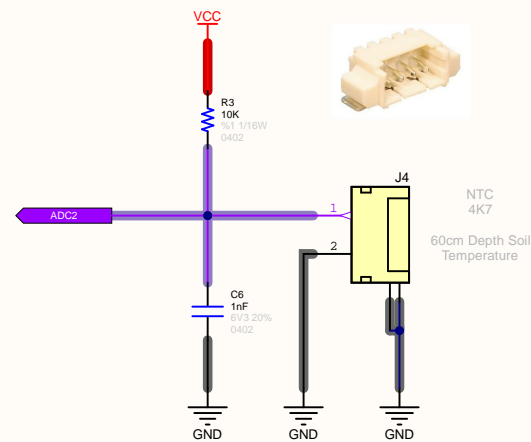
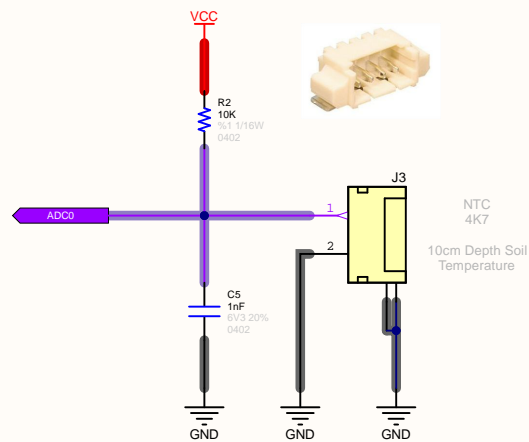
MCU Reset Line.  
Pull-up.




MicroController			Engineer : Guncce Akkoyun	STF Res-Dev Buyuk Kayacak Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye
Size : A4	Project : P101DA		Customer : STF Irrigation	
Date : 30.09.2022	Time : 11:21:33	Page : 3 / 5	Product ID : P101DA	
File : MicroController.SchDoc			Module ID : B153AA	
			Version : R1	
			Revision : 00.00.01	



MCU LED Layer			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="#">30.09.2022</a>	Time : <a href="#">11:21:33</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 : Günc Akkoyun	<b>STF Res-Dev</b> Büyük Kayacık Mah. 4. OSB 103. Cad. No : 12 Selçuklu / Konya Türkiye	
Size : A4	Project : P101DA		Customer : STF Irrigation		
Date : 30.09.2022	Time : 11:21:33	Page : 5 / 5	Product ID : P101DA		
File : Soil Temperature Sensors.SchDoc			Module ID : B153AA		
			Version : R1		
			Revision : 00.00.01		