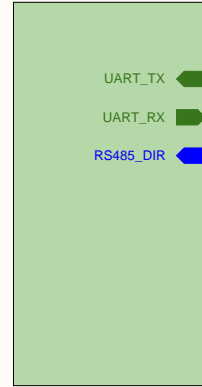
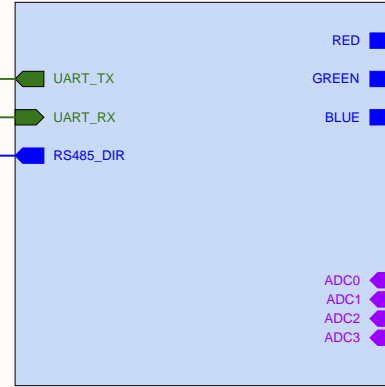


External RS485 communication port.

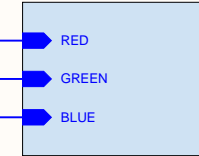
RS485 Communication Layer



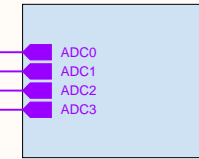
MCU Layer




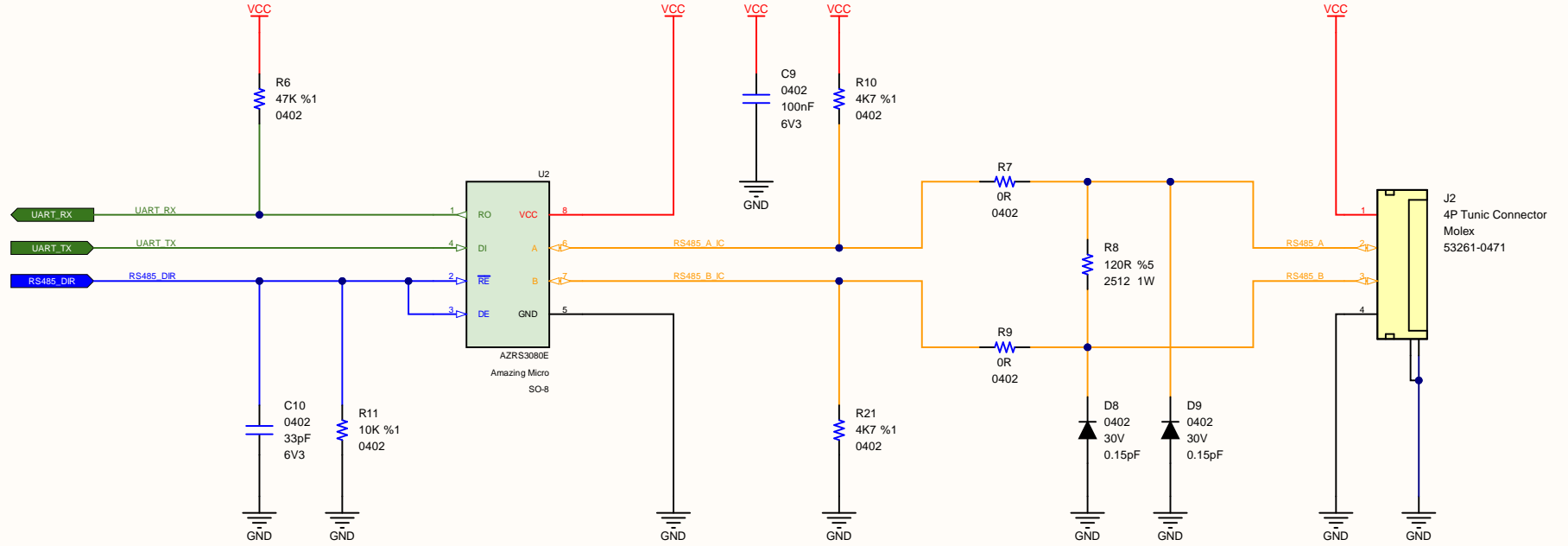
LED Indicator



Soil Temperature Sensors



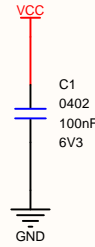
| | | | | | |
|-----------------------------|------------------|--------------|---------------------------|---|---|
| B153AA Block Diagram | | | Engineer : Gunce Akkoyun | STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye |  |
| | | | Customer : STF Irrigation | | |
| Size : A4 | Project : P101DA | | Product ID : P101DA | | |
| | | | Module ID : B153AA | | |
| Date : 13.09.2022 | Time : 10:46:26 | Page : 1 / 5 | Version : R1 | | |
| File : Block_Diagram.SchDoc | | | Revision : 00.00.01 | | |



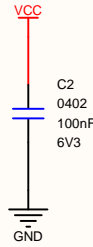
B152AA module have a on-board MCU
for measuring counter and transmit
value to main unit.

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

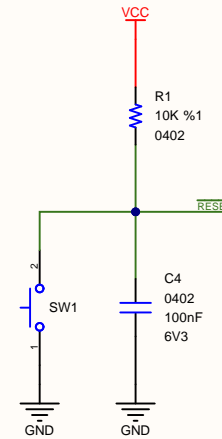
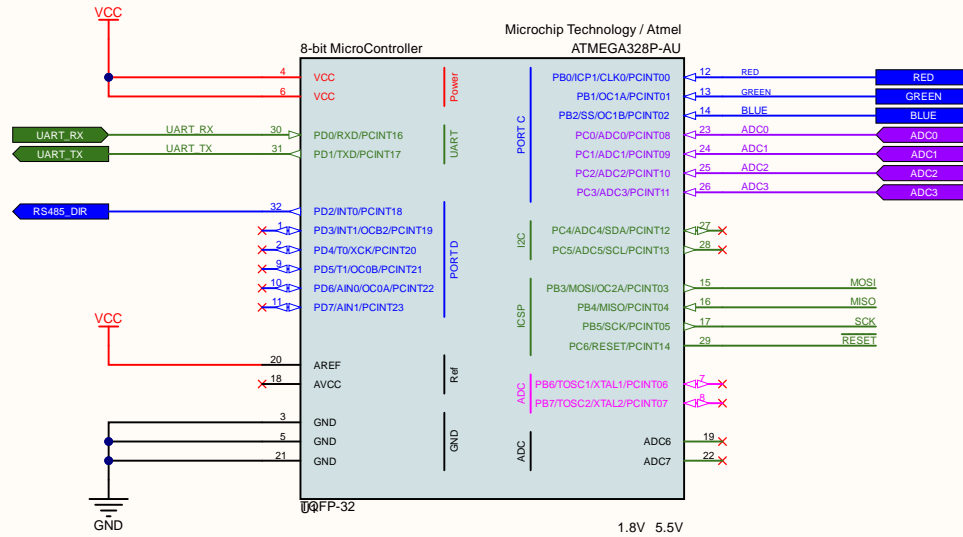
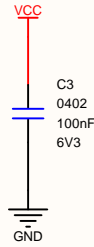
By-Pass Capacitor
Close to Atmega328P
Pin-4 (Vcc)



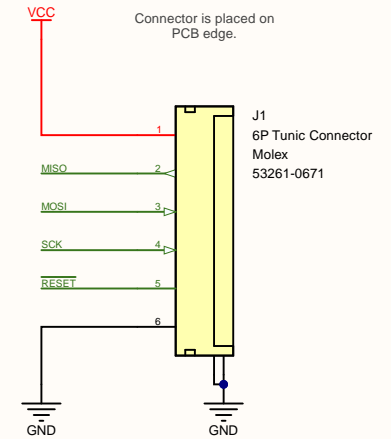
By-Pass Capacitor
Close to Atmega328P
Pin-6 (Vcc)



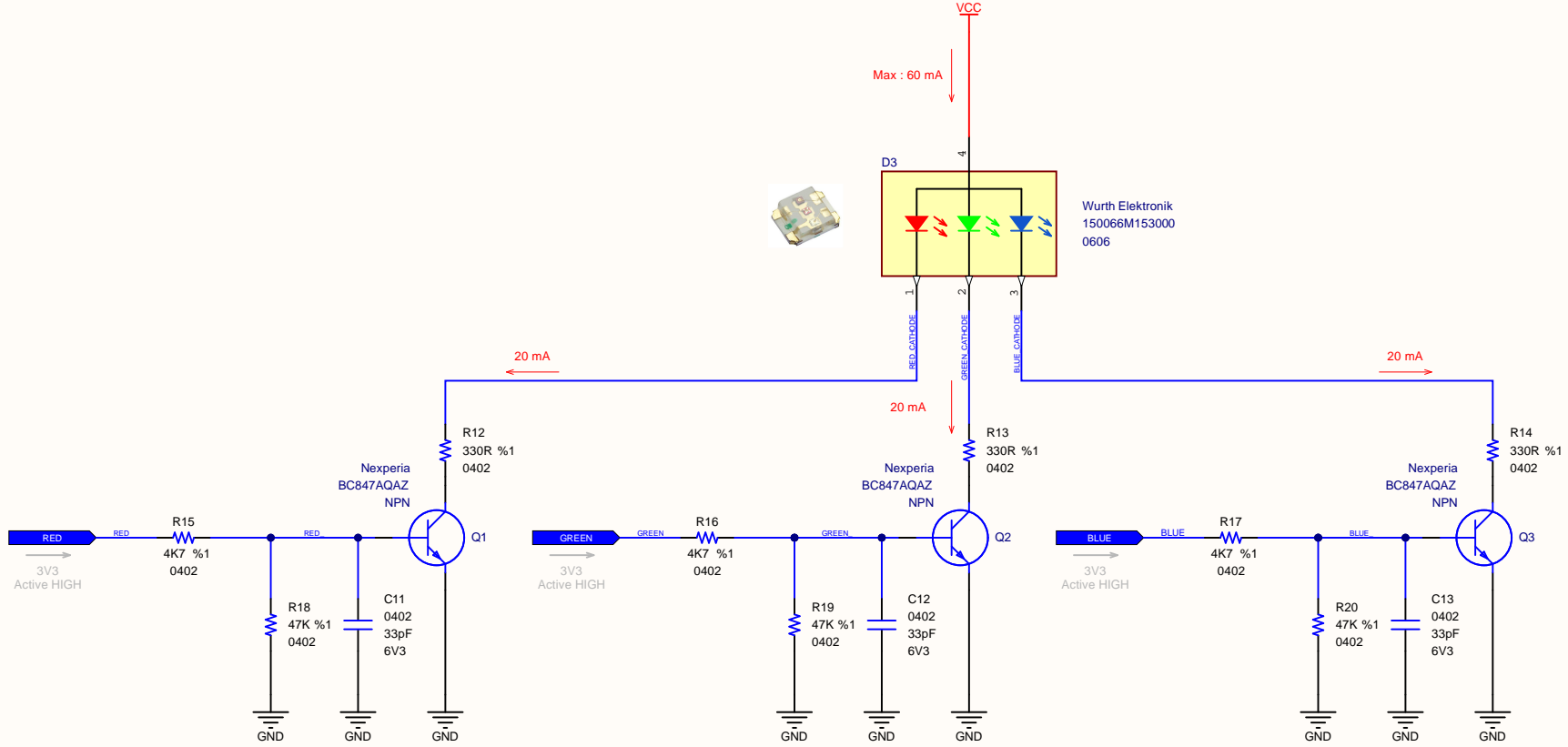
By-Pass Capacitor
Close to Atmega328P
Pin-18 (Avcc)



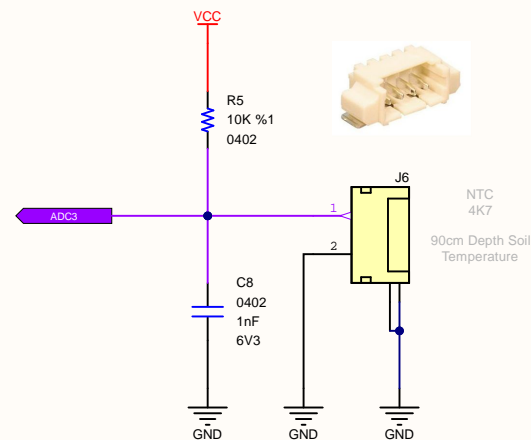
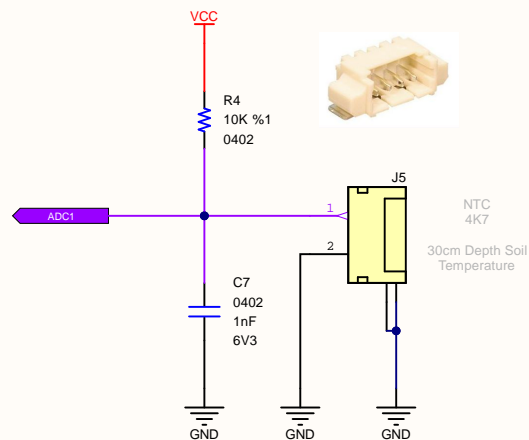
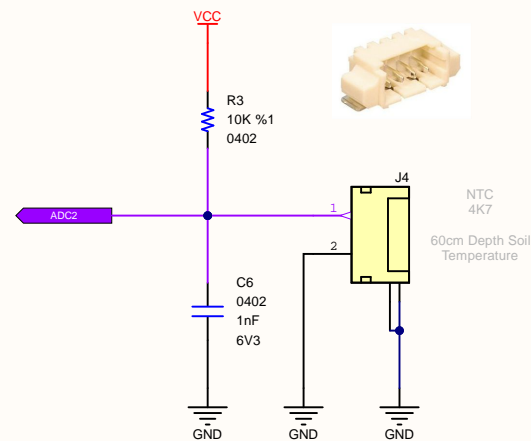
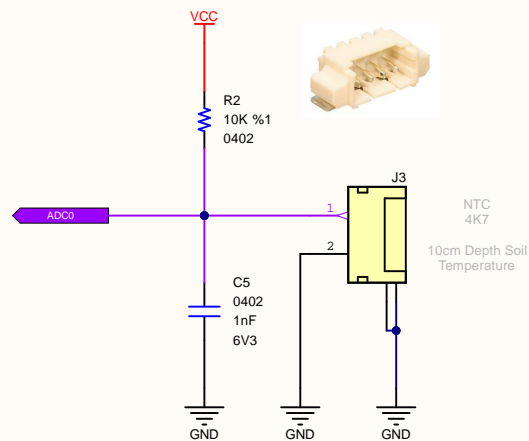
MCU Reset Line.
Pull-up.



| | | | | |
|---|----------------------------------|------------------------------|---|--|
| MicroController | | | Engineer : Gunce Akkoyun | STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye |
| Size : A4 | Project : P101DA | | Customer : STF Irrigation | |
| Date : 13.09.2022 | Time : 10:46:26 | Page : 3 / 5 | Product ID : P101DA | |
| File : MicroController.SchDoc | | | Module ID : B153AA | |
| | | | Version : R1 | |
| | | | Revision : 00.00.01 | |
| | | | | |



| | | | | |
|---|--|--|---|--|
| MCU LED Layer | | | Engineer : Gunce Akkoyun | STF Res-Dev Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye |
| Size : A4 | | | Customer : STF Irrigation | |
| Project : P101DA | | | Product ID : P101DA | |
| Date : 13.09.2022 | | | Module ID : B153AA | |
| Time : 10:46:26 | | | Version : R1 | |
| Page : 4 / 5 | | | Revision : 00.00.01 | |
| File : LED Inducator.SchDoc | | | | |



Soil Temperature Sensors

Size : A4

Project : P101DA

Date : 13.09.2022

Time : 10:46:26

Page : 5 / 5

File : Soil Temperature Sensors.SchDoc

Engineer : Güneç Akkoyun

Customer : STF Irrigation

Product ID : P101DA

Module ID : B153AA

Version : R1

Revision : 00.00.01

STF Res-Dev

Büyük Kayalık Mah. 4. OSB
103. Cad. No : 12
Selçuklu / Konya Türkiye

stf