



RutAdaptBoard-TextToSpeech

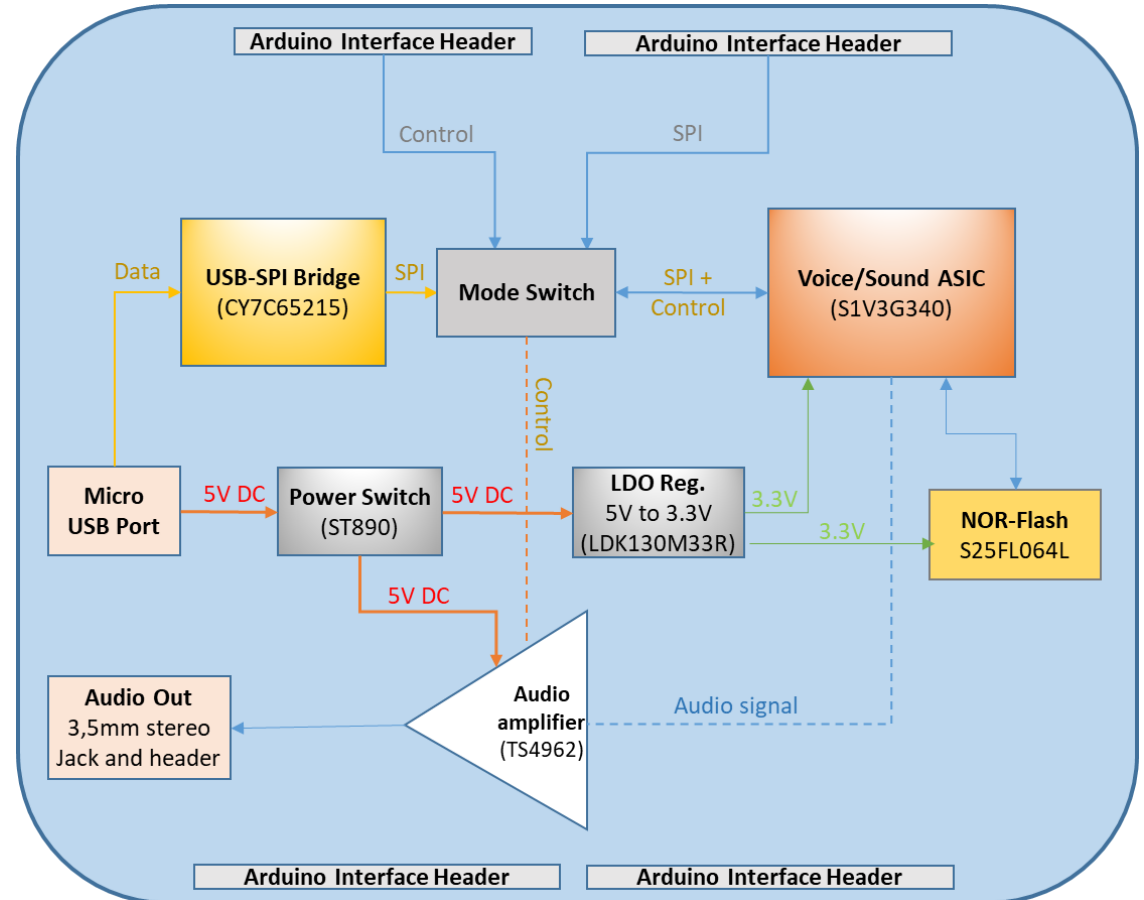
Key features

1. Block diagramm
2. Board IC components
3. Board connections
4. Arduino connectivity.
5. Board stacking example.



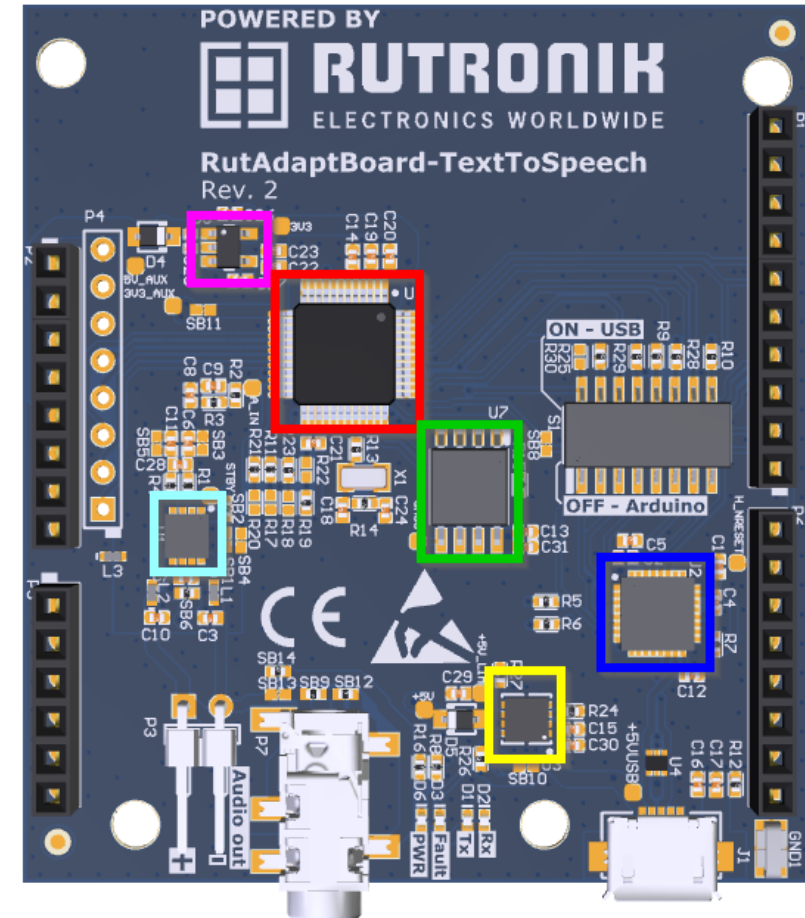
RutAdaptBoard-TextToSpeech – Block Diagram

- ✓ Voice/Sound ASIC
- ✓ NOR-Flash memory
- ✓ USB-SPI bridge
- ✓ Power switch
- ✓ Audio amplifier
- ✓ Arduino connectors
- ✓ Audio Jack
- ✓ USB Port



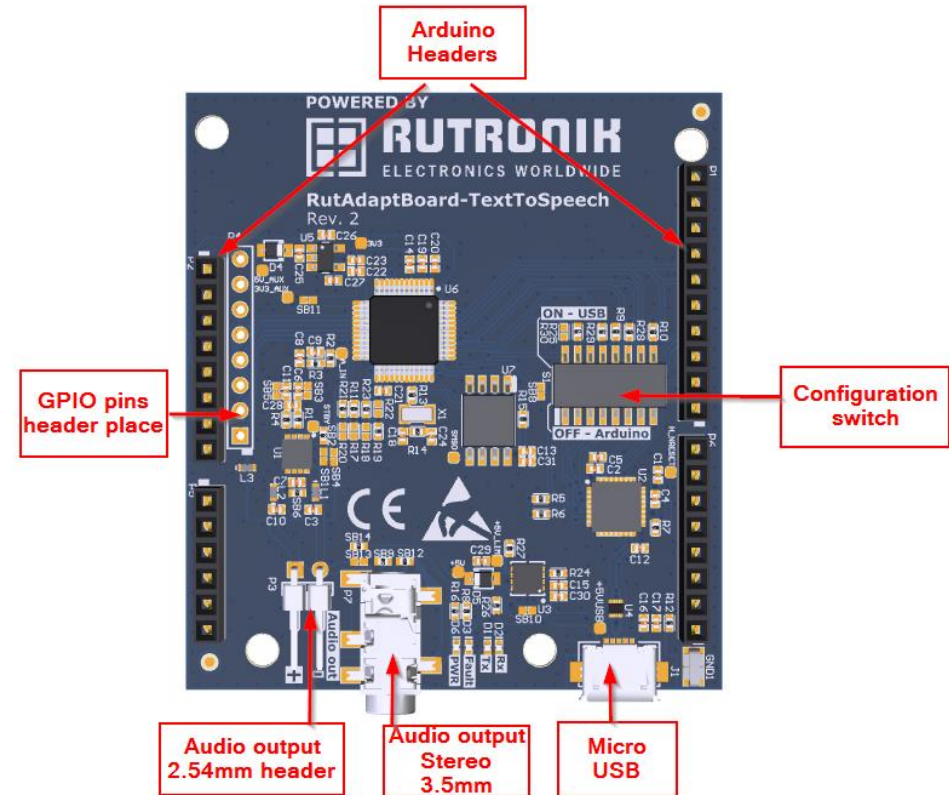
Board IC components

- Voice/Sound ASIC: **S1V3G340** (EPSON)
- USB to SPI: **CY7C65215** (Cypress)
- NOR-Flash: **S25FL064L** (Cypress)
- Audio Amplifier: **TS4962** (ST Microelectronics)
- Power Switch: **ST890** (ST Microelectronics)
- LDO Voltage Regulator: **LDK130M33R**
(STMicroelectronics)

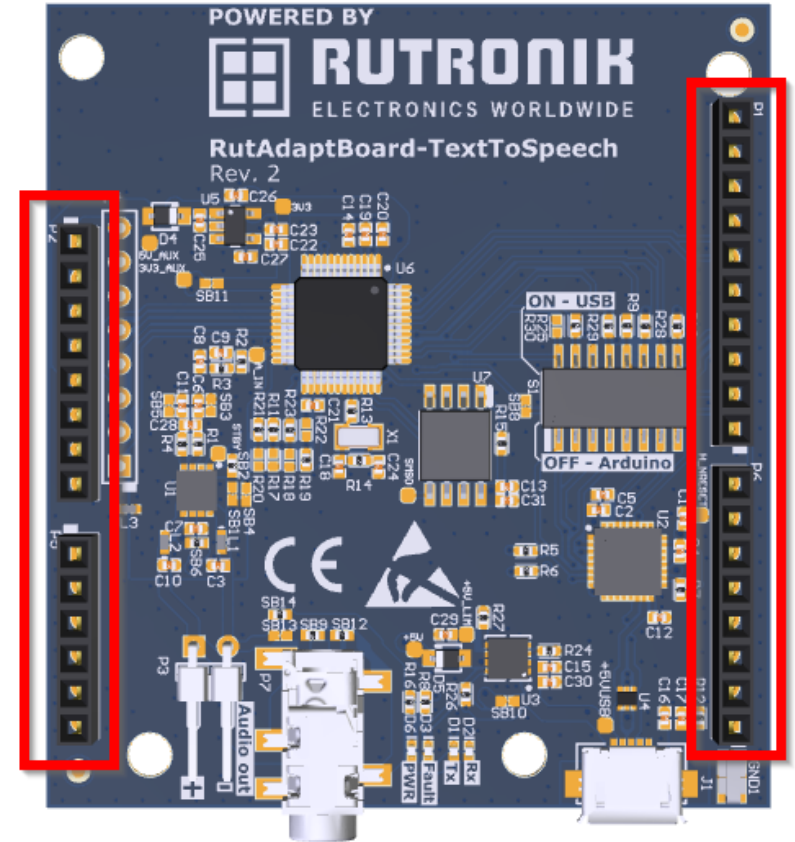


Board connections

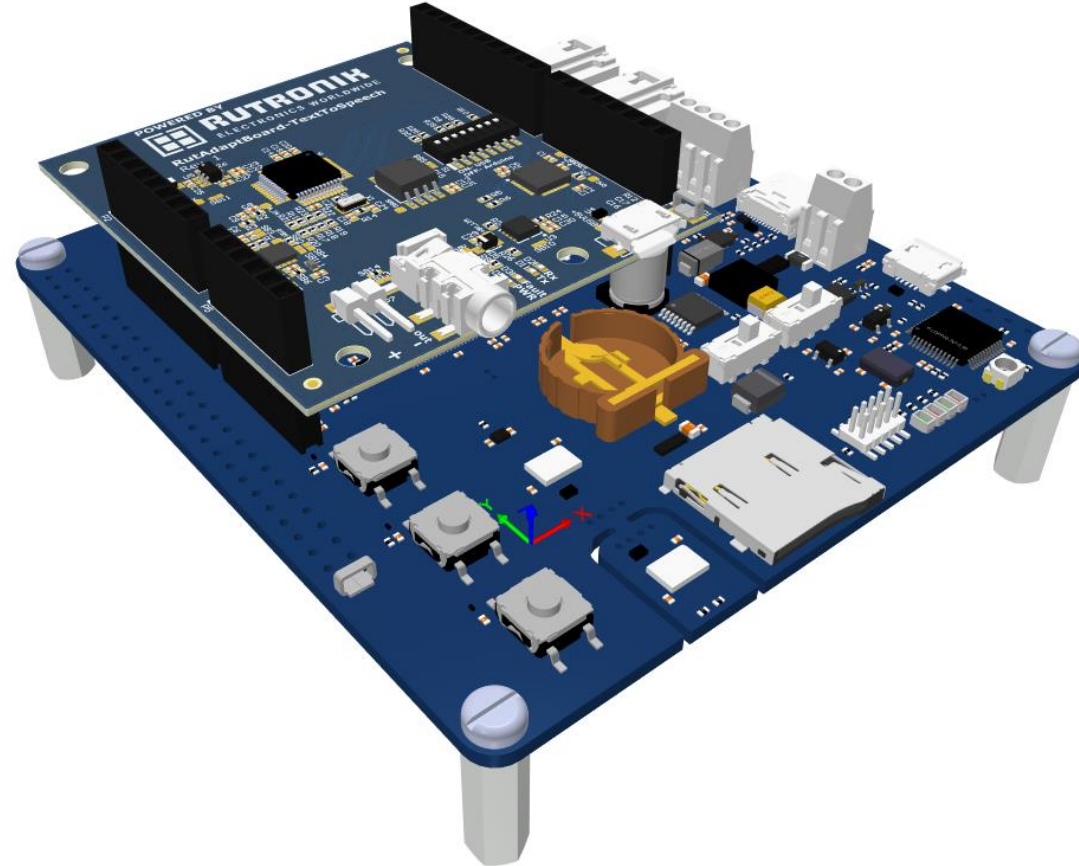
- ✓ Arduino compatible pi headers
- ✓ GPIO for Epson S1VG340
- ✓ Micro USB port
- ✓ Stereo audio output for 3.5mm audio jack
- ✓ Audio output header
- ✓ Configuration switch to select USB or Arduino communication

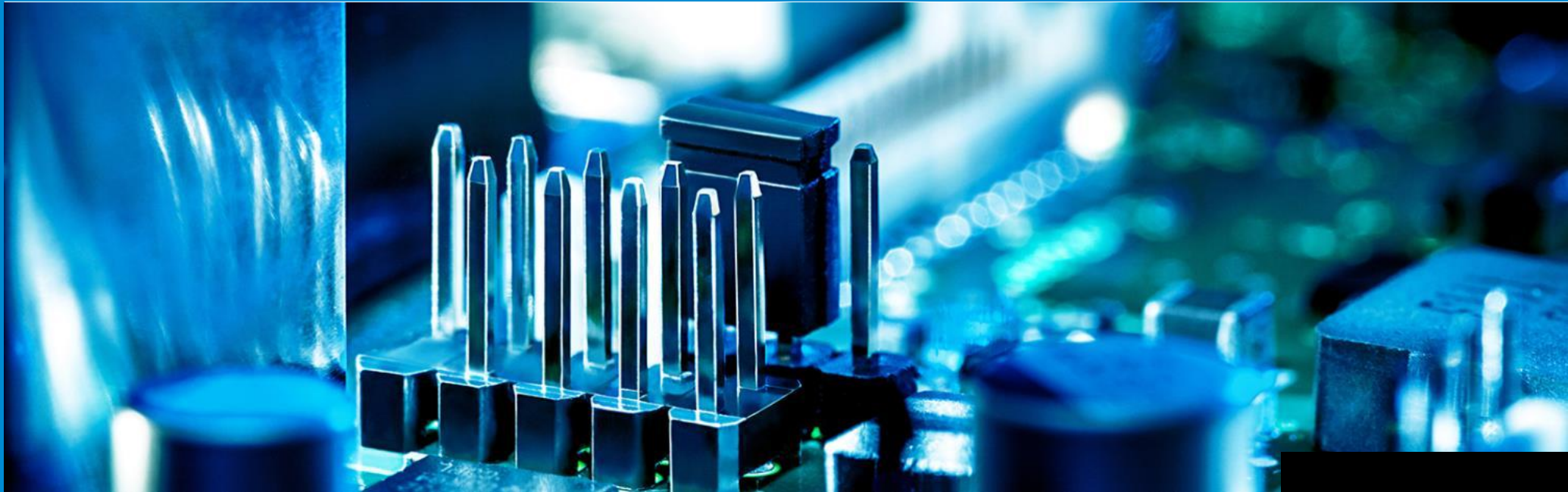


- ✓ Arduino connection to realize a
- ✓ wide range of applications for example with
- ✓ RUTDevKit or other Arduino compatible boards.



- Board stack example
RutAdaptBoard-TextToSpeech
and RUTDevKitL5.





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