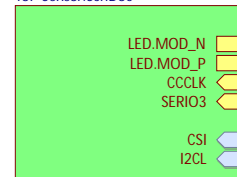


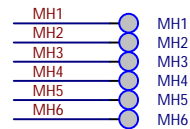
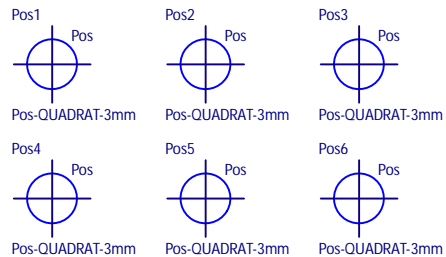
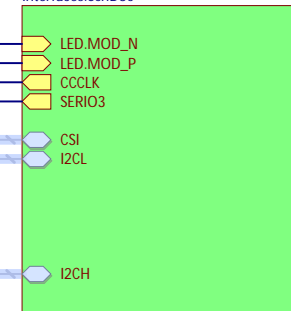
U_ToF-Sensor
ToF-Sensor.SchDoc



U_Power
Power.SchDoc



U_Interfaces
Interfaces.SchDoc



850-5440
PCB_EVK75123-MLX75024 V1.4

EVK75123-MLX75024

Top Layer

Drawn By: DST
Checked By: ROB

PN2017002.13
Rev: V1.4

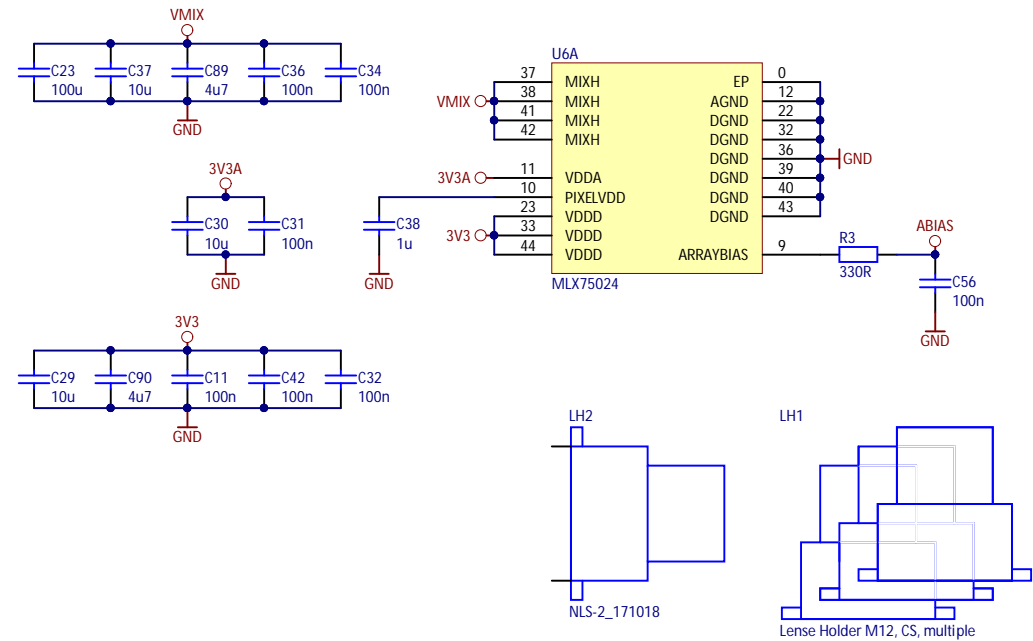
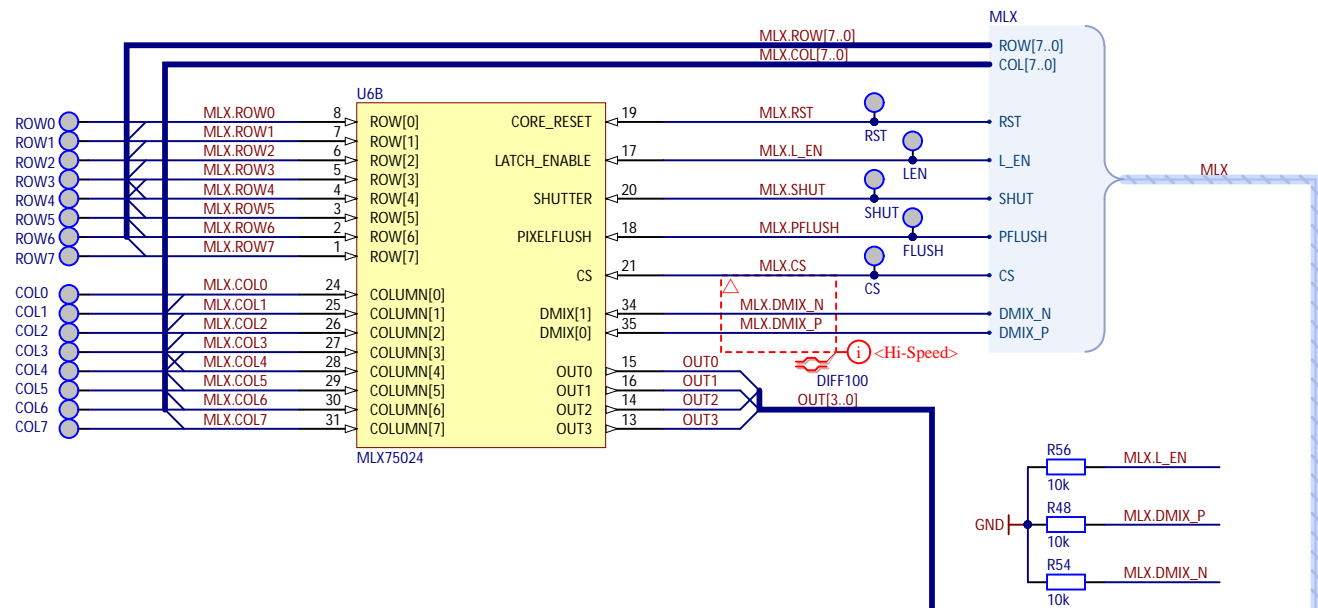
Sheet 1 of 4
Size: A4

BEKOM BLUETECHNIX
Gutheil-Schoder-Gasse 17
A - 1230 Wien
AUSTRIA

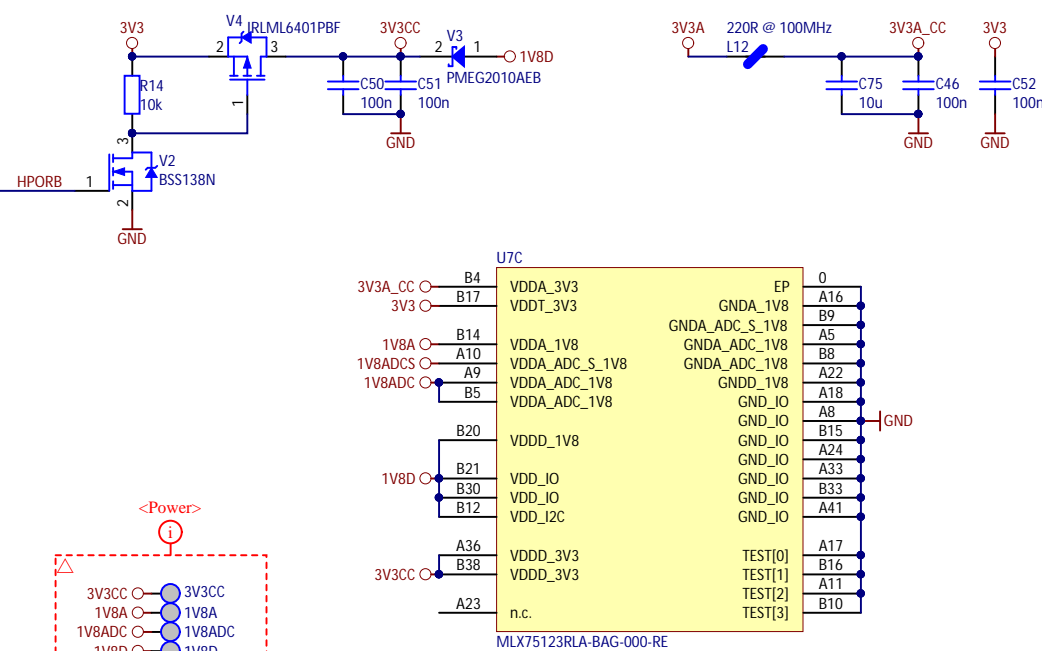
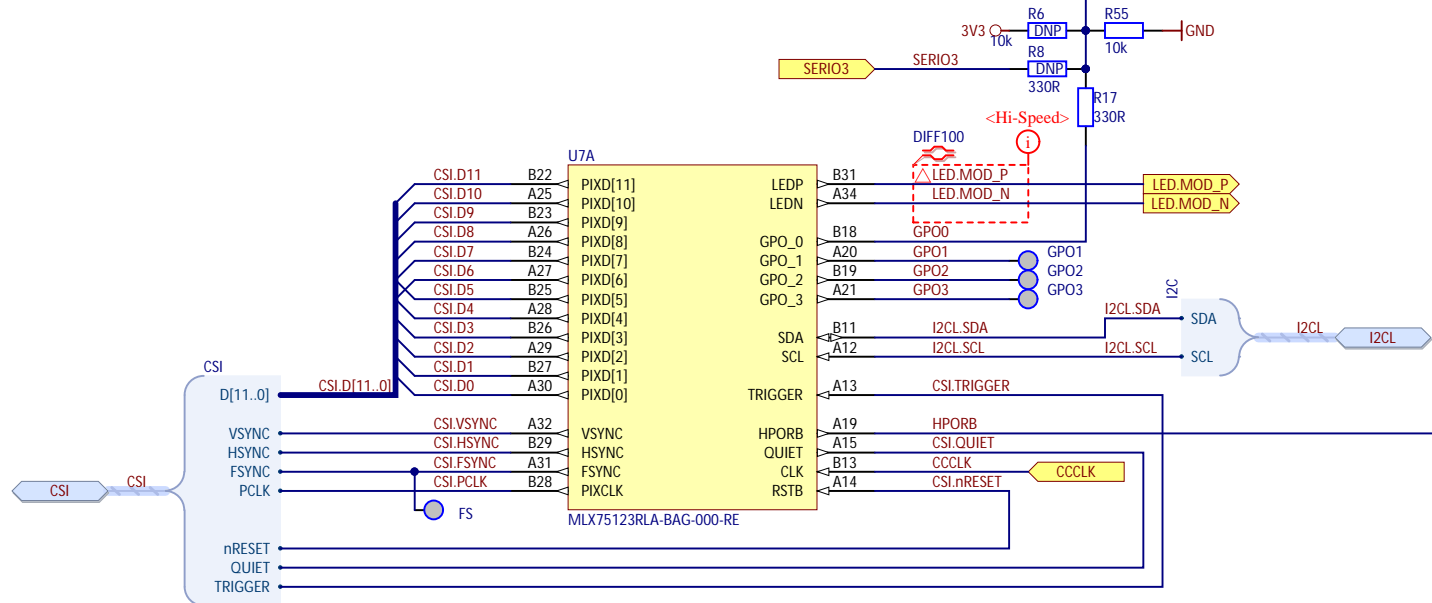
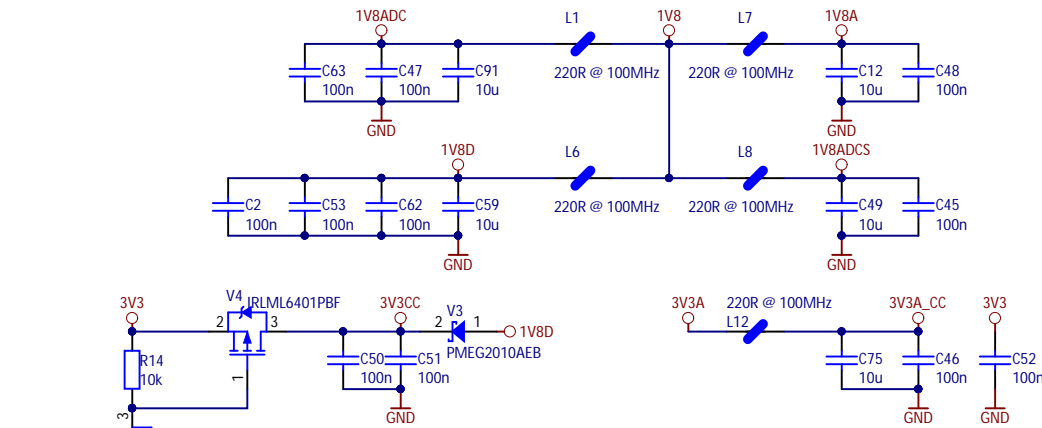
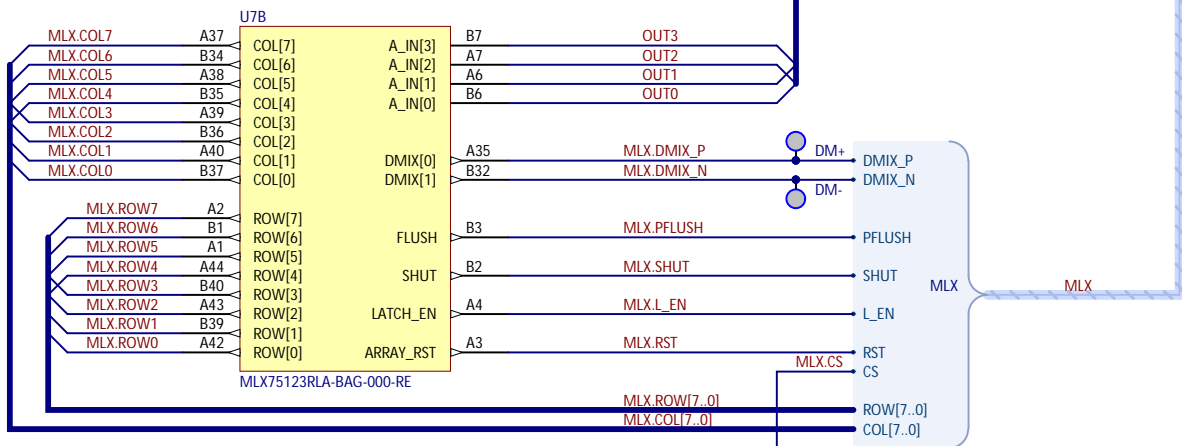
Last Update: 03.10.2018
Filename: TopLayer.SchDoc



ToF Sensor

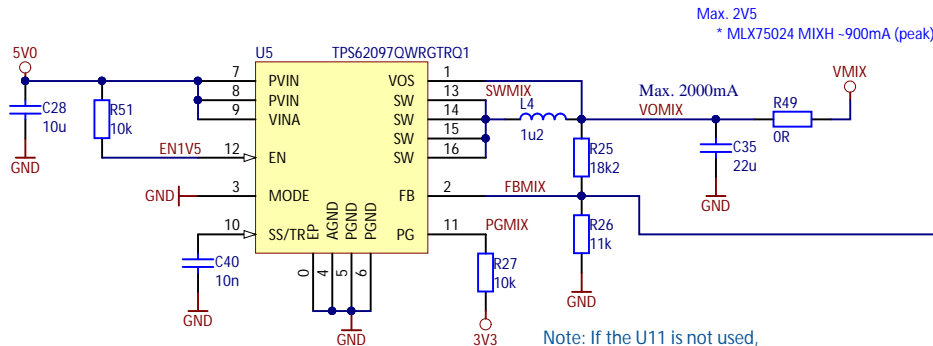
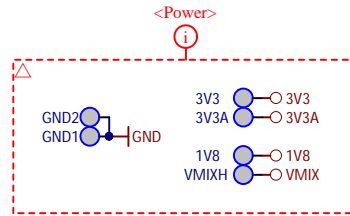
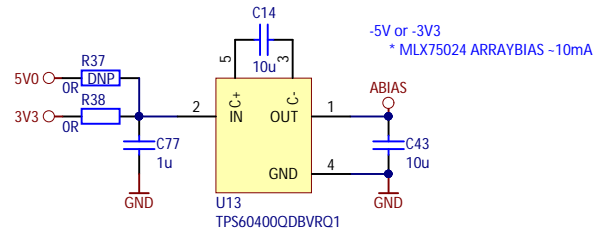
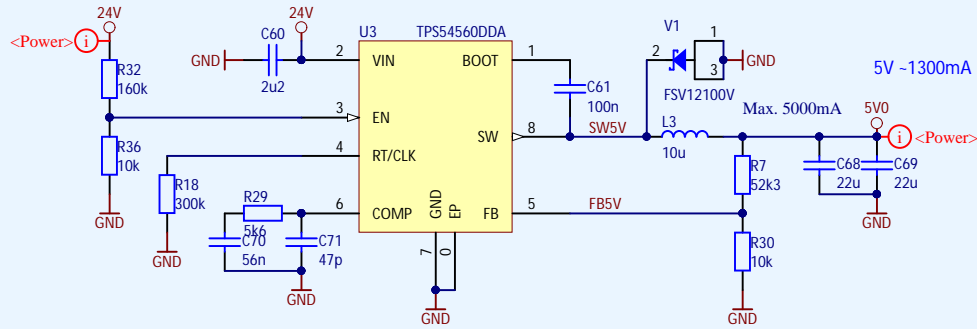


ToF-CC

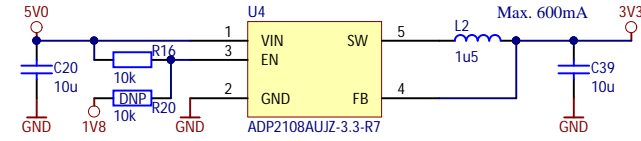


Optional Circuitry!

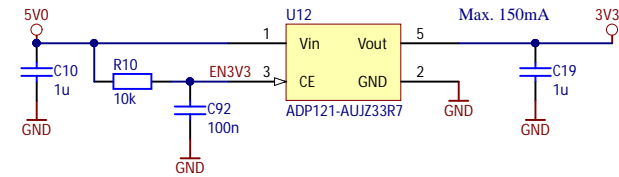
Only needed on EVK SensorBoards, because of 24V input voltage!
5V is needed as supply towards the IlluminationBoard (ic-HG)



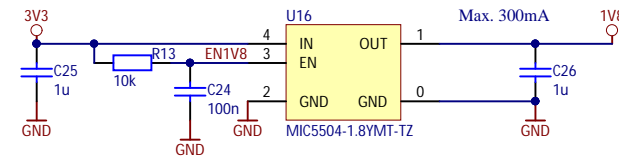
Note: If the U11 is not used,
the feedback resistor values
have to be recalculated!



- 3V3
- * MLX75024 VDDD -20 mA
- * MLX75123 VDDD_3V3 -20 mA
- * 1V8 LDO (U16) -109 mA
- * SerializerCore -150 mA
- * PLL -70 mA
- * I2C Level Shifter -3 mA
- * XTAL -8 mA
- * GPIO Level Shifter



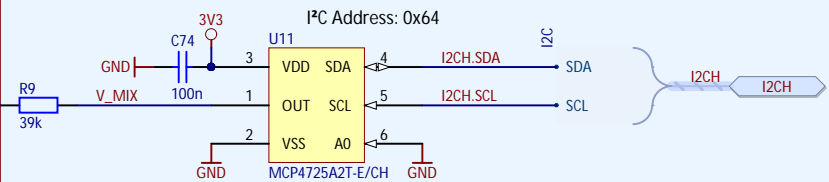
- 3V3 Analog
- * MLX75024 VDDA -50 mA
- * MLX75123 VDDA_3V3 -1 mA



- 1V8
- * MLX75123 VDDA_1V8 -5 mA
- * MLX75123 VDDA_ADC_S_1V8 -15 mA
- * MLX75123 VDDA_ADC_1V8 -50 mA
- * MLX75123 VDDD_1V8 -10 mA
- * MLX75123 VDDIO -20 mA
- * MLX75123 VDD_I2C -5 mA
- * SerializerIO -2 mA
- * 2x TMP108 -2 mA

Optional Circuitry!

Integrated flexibility for analysis of MIXH voltage on the EVK only.
In a custom application design MIXH is fixed at 2V5.



EVK75123-MLX75024

Power Supplies

PN2017002.13
Rev: V1.4

BECOM BLUETECHNIX
Guthell-Schoder-Gasse 17
A - 1230 Wien
AUSTRIA

Drawn By: DST
Checked By: ROB

Sheet 4 of 4
Size: A4

Last Update: 03.10.2018
Filename: Power.SchDoc

BLUETECHNIX
Embedding Ideas