SiNG Toolkit v0.1

universal FPGA based signal generator / analyzer

block diagram:

5.

DDR3
H5TQ4G63AFR-RDC

On-board traces

3.

DAC - 10-bit , 125 MSPS
AD9760

On-board traces

4.

ADC - 14-bit , 80 MSPS
AD6645

On-board traces

2.

USB Bridge
FT4232HL

On-board traces

1.

Xilinx FPGA
ARTIX - 7
XC7A100T- 2FGG676C

*maybe will be changed to
FT601Q USB 3.0 chip later

Ext. connectors

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Ext. connectors

6.

Fast multi-pin
parallel interface
+
Common interfaces
like SPI, I2C

7.

HMI

Display

Buttons

8.

Audio output (ΣΔ)

Ext. connectors

9.

Audio input + PTT*

* PTT means push to talk,
pressing this button
turns on transmitting,
and You are on the air ;)