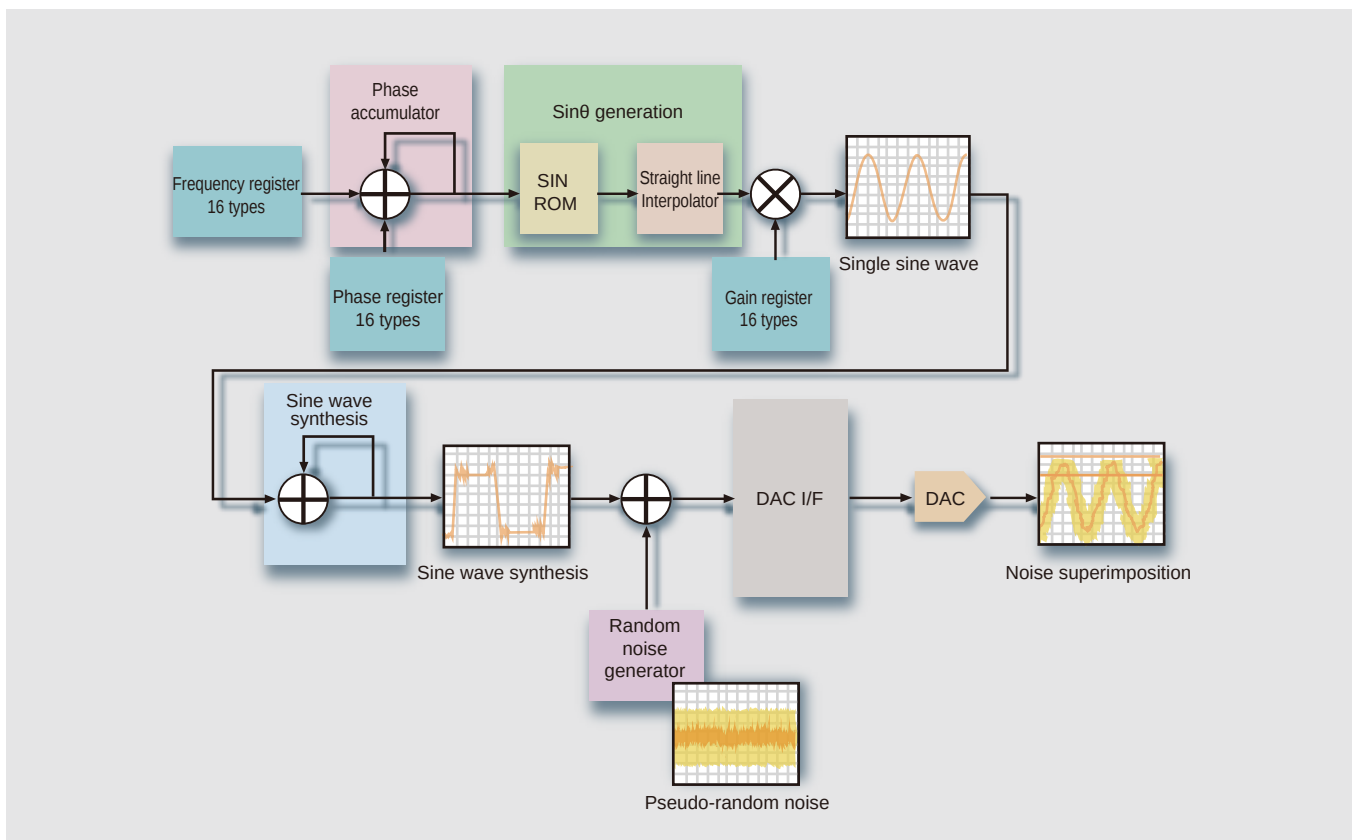


## DDS FPGA development (Sine wave generation)

We have developed a client-specific DDS (direct digital synthesizer) which uses FPGA to generate sine waves of any frequency.



### Development

- ▶ Implementation of a dedicated DDS (direct digital synthesizer) by using FPGA to generate sine waves of any frequency
- ▶ Setup of 16 individual types frequencies, phases and gains
- ▶ Pseudo-random noise generation function (internal generation)
- ▶ 4 inbuilt ch

### Features

- ▶ Combined output of 16 types of sine waves in each output
- ▶ Pseudo-random noise can be superimposed on the output waveform
- ▶ Implements a low-capacity FGPA by using a pipeline