internal bus

SPI slave
with MPCM support

1 kbytes of RAM
for 3 seconds
of Goertzel results

CPU for 3x Goertzel
with 50 calculations
per second

8 kbytes of RAM
for up to 4 seconds
of ADC results

1 kSPS and 1 MSPS,
16 bit delta-sigma ADC

8th order
analogue Butterworth
low-pass filter
with 250 kHz cut-off freq.

Frequency-independent
fractal antenna

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SPI slave
with MPCM support

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1 kSPS and 1 MSPS,
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8th order
analogue Butterworth
low-pass filter
with 250 kHz cut-off freq.

Frequency-independent
fractal antenna

SPI master
with MPCM support

256 kbytes of RAM
for the Goertzel results
(for 256 channels)

CPU to request data and
build data packets

1 kbyte of RAM to store
Goertzel parameters
and ADC clock prescaler

SPI slave
with MPCM support

external bus