Cascaded example: 1 motherboard, multiple cascadable daughterboards

< 3.755 cm

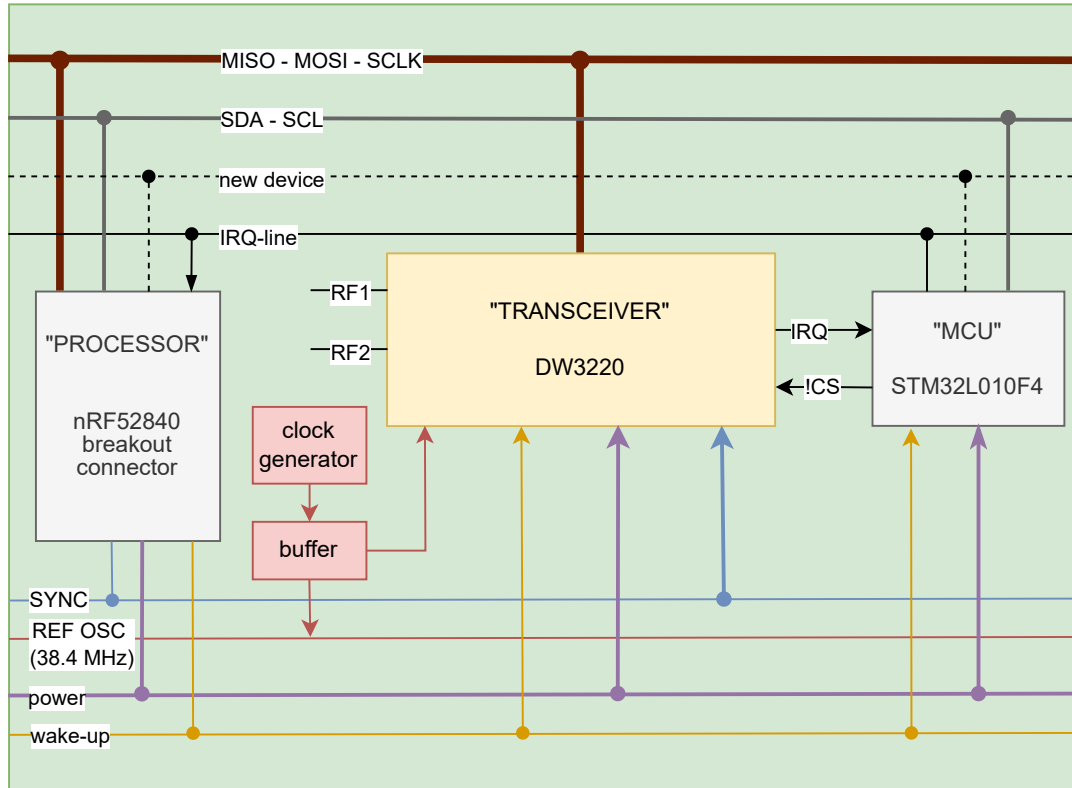daughterboard | daughterboard | motherboard | daughterboard

.... up to x-1 daughterboard modules
(x depending on address length)
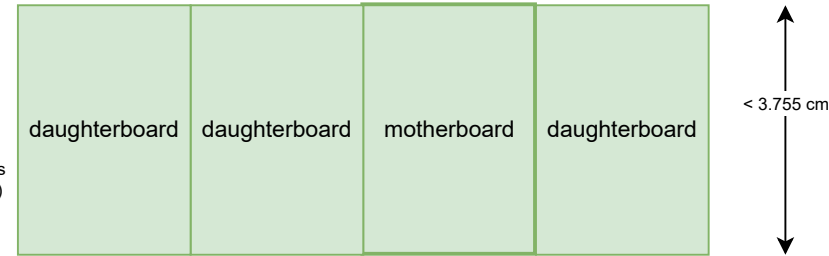
Channel 9 UWB: 7987.2 MHz
=> lambda = 3.755762 cm
=> lambda/2 = 1.877881 cm

< 1.877 cm   < 1.877 cm

"MOTHERBOARD"

MISO - MOSI - SCLK
SDA - SCL
new device
IRQ-line

"PROCESSOR"
nRF52840
breakout
connector

clock
generator

buffer

RF1
RF2

"TRANSCEIVER"
DW3220

IRQ

!CS

"MCU"
STM32L010F4

SYNC
REF OSC
(38.4 MHz)
power
wake-up

"DAUGHTERBOARD"

MISO - MOSI - SCLK
SDA - SCL
new device
IRQ-line

RF1
RF2

"TRANSCEIVER"
DW3220

buffer

IRQ

!CS

"MCU"
STM32L010F4

SYNC
REF OSC
(38.4 MHz)
power
wake-up