I2C-LCD_Transmitter

VCC — J1 — 1 — VCC
GND — J2 — 1 — GND
J3 — 1 — SCL
J4 — 1 — SDA

STM32F103C8T6_Transmitter

SDA — 1 — Transmitter_PB7
SCL — 1 — Transmitter_PB6
Transmitter_PB9 — 1 — RX
Transmitter_PA4 — 1
Transmitter_PA3 — 1
Transmitter_PA2 — 1
Transmitter_PA1 — 1
Transmitter_PA0 — 1

R5 10kΩ   B5
R4 10kΩ   B4
R3 10kΩ   B3
R2 10kΩ   B2
R1 10kΩ   B1

VCC
GND

Transmitter_Side

Transmitter_Module

VCC   Vsense
R8 Rsense
LED
R7 1kΩ
R6 1kΩ   Q1 2N2222
IRF540N
GND

Receiver_Module

VCC
BPW21
R11 1kΩ
R10 1kΩ   Q2 2N2222
R9 10kΩ
GND

STM32F103C8T6_Receiver

TX — 1 — Alici_PB10
SCL — 1 — Receiver_PB6
SDA — 1 — Receiver_PB7
Receiver_PA0 — 1

I2C-LCD_Receiver

LCD4 — 1 — SCL
LCD3 — 1 — SDA
LCD2 — 1 — GND
LCD1 — 1 — VCC

GND   VCC

Receiver_Side

GND
Cathode — 1
Anode — 1
Buzzer

Li-Fi Wireless Serial Comm.

Yetkin AKYUZ

https://yetkinakyuz.com

STM32 Based Transmitter & Receiver Circuits

Version: 1.3