

## I. Connecting components on a board

F1C200S[53] - <b>SDC0_DAT2</b> - GW1NRLV9[55]	Z3: microSD[01] - <b>DAT2</b> - GW1NRLV9[33]
F1C200S[54] - <b>SDC0_DAT3</b> - GW1NRLV9[54]	Z3: microSD[02] - <b>DAT3</b> - GW1NRLV9[34]
F1C200S[55] - <b>SDC0_CMD</b> - GW1NRLV9[53]	Z3: microSD[03] - <b>CMD</b> - GW1NRLV9[35]
F1C200S[56] - <b>SDC0_SCK</b> - GW1NRLV9[51]	Z3: microSD[05] - <b>SCK</b> - GW1NRLV9[36]
F1C200S[57] - <b>SDC0_DAT0</b> - GW1NRLV9[50]	Z3: microSD[07] - <b>DAT0</b> - GW1NRLV9[37]
F1C200S[58] - <b>SDC0_DAT1</b> - GW1NRLV9[49]	Z3: microSD[08] - <b>DAT1</b> - GW1NRLV9[38]

F1C200S[06] - **PD2/LCD\_D2/I2C0\_SDA** - NS2009\_U10[09] - Y2[03] - FPC24\_CAM[03]  
F1C200S[18] - **PD12/LCD\_D18/I2C0\_SCL** - NS2009\_U10[10] - Y2[15] - FPC24\_CAM[05]

F1C200S[63] - **PA3/SPI1\_MISO/UART1\_TX** - Y1[05] - GW1NRLV9[48]  
F1C200S[64] - **PA2/SPI1\_SCK/UART1\_RX** - Y1[06] - GW1NRLV9[47]  
F1C200S[65] - **PA1/SPI1\_MOSI** - Y1[04]  
F1C200S[66] - **PA0/SPI1\_CS** - Y1[03]

F1C200S[59] - **PC0/SPI0\_SCK/UART1\_RX** - GD5F1G\_U2[06]  
F1C200S[60] - **PC1/SPI0\_CS** - GD5F1G\_U2[01]  
F1C200S[61] - **PC2/SPI0\_MISO/UART1\_TX** - GD5F1G\_U2[02] - X2[01]  
F1C200S[62] - **PC3/SPI0\_MOSI** - GD5F1G\_U2[05]

GD32F303[30] - PA9 **USART0\_TXD** - GW1NRLV9[18] - Y5[03]  
GD32F303[31] - PA10 **USART0\_RXD** - GW1NRLV9[17] - Y5[04]  
GD32F303[12] - PA2 **USART1\_TXD** - **USART1\_RXD** - GD32F103[10] USB-UART-2  
GD32F303[13] - PA3 **USART1\_RXD** - **USART1\_TXD** - GD32F103[09] USB-UART-2

GD32F303[21] - PB10 **USART2\_TXD** - GW1NRLV9[26]  
GD32F303[22] - PB11 **USART2\_RXD** - GW1NRLV9[27]  
GD32F303[25] - PB12 **USART2\_CK** - GW1NRLV9[25]

GD32F303[16] - PA6 **CS\_DACA** - DAC7311\_U20[01]  
GD32F303[18] - PB0 **CS\_DACB** - DAC7311\_U25[01]  
GD32F303[19] - PB1 **CS\_ADS** - ADS1120\_U28[02]  
GD32F303[20] - PB2 **ADS\_DRY** - ADS1120\_U28[14]  
GD32F303[26] - PB13 **SPI1\_SCK** - ADS1120\_U28[01] - DAC7311\_U20[02] - DAC7311\_U25[02]  
GD32F303[27] - PB14 **SPI1\_MISO** - ADS1120\_U28[15]  
GD32F303[28] - PB15 **SPI1\_MOSI** - ADS1120\_U28[16] - DAC7311\_U20[03] - DAC7311\_U25[03]

GD32F303[38] - PA15 **SPI2\_CS** - W25Q64\_U29[01]  
GD32F303[39] - PB3 **SPI2\_SCK** - W25Q64\_U29[06]  
GD32F303[40] - PB4 **SPI2\_MISO** - W25Q64\_U29[02]  
GD32F303[41] - PB5 **SPI2\_MOSI** - W25Q64\_U29[05]

GD32F303[42] - PB6 **I2C0\_SCL** - M24C64\_U27[02]  
GD32F303[43] - PB7 **I2C0\_SDA** - M24C64\_U27[05]

W25Q32_U9[01] - <b>SPI_CS</b> - GW1NRLV9[60]	LED_GREEN[LD3-A] - <b>LED_G</b> - GW1NRLV9[31]
W25Q32_U9[02] - <b>SPI_MISO</b> - GW1NRLV9[62]	
W25Q32_U9[05] - <b>SPI_MOSI</b> - GW1NRLV9[61]	ESP-03_M1[10] - <b>RF_TXD</b> - GW1NRLV9[40]
W25Q32_U9[06] - <b>SPI_SCK</b> - GW1NRLV9[59]	ESP-03_M1[11] - <b>RF_RXD</b> - GW1NRLV9[41]

LED\_BLUE[LD1-A] - **LED\_B** - GW1NRLV9[39]      OSC\_27MHz\_Q2[03] - **CLOCK** - GW1NRLV9[52]  
LED\_RED[LD2-A] - **LED\_R** - GW1NRLV9[32]

**RST\_M** - GW1NRLV9[42] - GD32F303[07] - GD32F103[04] - F1C200S[70] - Y1[08] - Y4[09]

## II. Connecting components using jumpers

GW1NRLV9[29] - **RXD\_M** - Y4[01] ----- Y4[02] - **USART0\_TXD** - GD32F103[21] USB-UART-1

GW1NRLV9[28] - **TXD\_M** - Y4[03] ----- Y4[04] - **USART0\_RXD** - GD32F103[22] USB-UART-1

GD32F103[08] - **SWDIOc** - Y6[05] ----- Y6[06] - **SWDIO** - GD32F303[34]

GD32F103[07] - **SWCLKc** - Y6[07] ----- Y6[08] - **SWCLK** - GD32F303[37]

GW1NRLV9[56] - **IOR14A** - Y2[27] ----- Y2[28] - **PE10/CSI\_D7/SPI1\_MISO/UART2\_CTS** - F1C200S[39]

GW1NRLV9[57] - **IOR13A** - Y2[29] ----- Y2[30] - **PE9/CSI\_D6/SPI1\_CLK/UART2\_RTS** - F1C200S[40]

GW1NRLV9[63] - **IOR5A** - Y2[31] ----- Y2[32] - **PE8/CSI\_D5/SPI1\_MOSI/UART2\_RX** - F1C200S[41]

GW1NRLV9[30] - **IOB13B** - Y2[33] ----- Y2[34] - **PE7/CSI\_D4/SPI1\_CS /UART2\_TX** - F1C200S[42]

GW1NRLV9[76] - **IOT37B** - Y2[41] ----- Y2[42] - **PE1/CSI\_VS/I2C2\_SDA/UART0\_TX** - F1C200S[48]

GW1NRLV9[77] - **IOT37A** - Y2[43] ----- Y2[44] - **PE0/CSI\_HS/I2C2\_SCL/UART0\_RX** - F1C200S[49]

RS806[01]-RESET\_OUT-X6[01] ----- X6[02] **RST\_M** ----- X6[03] - BUTTOM\_RST[1]

Set X6[01]---X6[02] - the reset signal RST\_M is generated by the watchdog timer and the RESET button

Set X6[02]---X6[03] - the reset signal RST\_M is generated only by the RESET button

## III. Connecting components for the testing program

- Powering from USB :

**X4[01]-----X4[02]**

- Watchdog ON :

**X6[01]-----X6[02]**

- Connecting the F1C200S processor's serial port to USB-UART channel 1

**Y4[01]---Y4[02]** Connection via configuration GW1NRLV9

**Y4[03]---Y4[04]** Connection via configuration GW1NRLV9

- Connecting a system debugger to a microcontroller GD32F303

**Y6[05]---Y6[06]** - SWDIO

**Y6[07]---Y6[08]** - SWCLK

- For testing DAC7311 output and ADS1120 input:

**Y7[03]** ADS1120\_AIN1 ----- **GNDA-Y7[02]**

**Y7[06]** ADS1120\_AIN3 ----- **AOUTB\_DAC7311-Y7[07]**