| Pin #       | 1        | 2       | 3          | 4         | 5          | 6            | 7                        | 8          |            | 9         | 10           | 11         | 12         | 13        | 14      | 15         | 16           | 17        | 18           | 19            | 20      | 21          | 22                 | 23                     | 24                      | 25           | 26          | 27           | 28             | 29                   | 30                      | 31                           | 32                       | 33         | 34         | 35              | 36             | 37        | 38         | 39          | 40        | 41         | 42          | 43                          | 44                      | 45                        | 46                        | 47                         | 48                           | 49          | 50           |
|-------------|----------|---------|------------|-----------|------------|--------------|--------------------------|------------|------------|-----------|--------------|------------|------------|-----------|---------|------------|--------------|-----------|--------------|---------------|---------|-------------|--------------------|------------------------|-------------------------|--------------|-------------|--------------|----------------|----------------------|-------------------------|------------------------------|--------------------------|------------|------------|-----------------|----------------|-----------|------------|-------------|-----------|------------|-------------|-----------------------------|-------------------------|---------------------------|---------------------------|----------------------------|------------------------------|-------------|--------------|
| Pin Name    | PE2      | PE3     | PE4        | PE5       | PE6        | 6 VBAT       | PC13                     | PC14-OSC32 | LIN PC15-O | SC32_OUT  | vss          | VDD F      | PH0-OSC_IN | PH1-OSC_O | UT NRST | PC0        | PC1          | PC2       | PC3          | VSSA          | VREF-   | VREF+       | VDDA               | PA0                    | PA1                     | PA2          | PA3         | vss          | VDD            | PA4                  | PA5                     | PA6                          | PA7                      | PC4        | PC5        | PB0             | PB1            | PB2       | PE7        | PE8         | PE9       | PE10       | PE11        | PE12                        | PE13                    | PE14                      | PE15                      | PB10                       | PB11                         | vss         | VDD          |
| I2C         | N/A      | N/A     | N/A        | N/A       | N/A        | 4 <i>N/A</i> | N/A                      | N/A        |            | N/A       | N/A          | N/A        | N/A        | N/A       | N/A     | I2C3_SCL   | I2C3_SDA     | N/A       | N/A          | N/A           | N/A     | N/A         | N/A                | N/A                    | N/A                     | N/A          | N/A         | N/A          | N/A            | N/A                  | N/A                     | N/A                          | N/A                      | N/A        | N/A        | N/A             | N/A            | I2C3_SMBA | N/A        | N/A         | N/A       | N/A        | N/A         | N/A                         | N/A                     | N/A                       | N/A                       | I2C2_SCL                   | I2C2_SDA                     | N/A         | N/A          |
| SPI/I2S     | N/A      | N/A     | N/A        | N/A       | A N/A      | 4 <i>N/A</i> | N/A                      | N/A        |            | N/A       | N/A          | N/A        | N/A        | N/A       | N/A     | N/A        | N/A          | SPI2_MISO | SPI2_MOSI    | N/A           | N/A     | N/A         | N/A                | N/A                    | N/A                     | N/A          | N/A         | N/A          | N/A            | SPI1_NSS<br>SPI3_NSS | SPI1_SCK                | SPI1_MISO QUADSPI_BK1_IO3    | SPI1_MOSI QUADSPI_BK1_IC | 2 N/A      | N/A        | QUADSPI_BK1_IO1 | QUADSPI_BK1_IO | 0 N/A     | N/A        | N/A         | N/A QL    | UADSPI_CLK | QUADSPI_NCS | SPI1_NSS<br>QUADSPI_BK1_IO0 | SPI1_SCK QUADSPI_BK1_IO | SPI1_MISO QUADSPI_BK1_IO2 | SPI1_MOSI<br>QUADSPI_BK1. | SPI2_SCK<br>.IO3 QUADSPI_C | CLK QUADSPI_NO               | S N/A       | N/A          |
| USART       | N/A      | N/A     | N/A        | N/A       | A N/A      | 4 <i>N/A</i> | N/A                      | N/A        |            | N/A       | N/A          | N/A        | N/A        | N/A       | N/A     | LPUART1_R  | X LPUART1_T  | N/A       | N/A          | N/A           | N/A     | N/A         | N/A                | USART2_CTS<br>UART4_TX | USART2_RTS_<br>UART4_RX | .DE USART2_T | TX USART2_F | X N/A        | N/A            | USART2_CK            | N/A                     | USART3_CTS                   | N/A                      | USART3_TX  | USART3_RX  | USART3_CK       | USART3_RTS_DE  | N/A       | N/A        | N/A         | N/A       | N/A        | N/A         | N/A                         | N/A                     | N/A                       | N/A                       | USART3_T<br>LPUART1_F      | TX USART3_RX<br>RX LPUART1_T | N/A         | N/A          |
| USB/CAN/PD  | N/A      | N/A     | N/A        | N/A       | A N/A      | 4 <i>N/A</i> | N/A                      | N/A        |            | N/A       | N/A          | N/A        | N/A        | N/A       | N/A     | N/A        | N/A          | N/A       | N/A          | N/A           | N/A     | N/A         | N/A                | N/A                    | N/A                     | N/A          | N/A         | N/A          | N/A            | N/A                  | N/A                     | N/A                          | N/A                      | N/A        | N/A        | N/A             | N/A            | N/A       | N/A        | N/A         | N/A       | N/A        | N/A         | N/A                         | N/A                     | N/A                       | N/A                       | N/A                        | N/A                          | N/A         | N/A          |
| ADC/DAC     | N/A      | N/A     | N/A        | N/A       | A N/A      | 4 <i>N/A</i> | N/A                      | N/A        |            | N/A       | N/A          | N/A        | N/A        | N/A       | N/A     | ADC123_IN  | I ADC123_IN2 | ADC123_IN | 3 ADC123_IN4 | N/A           | N/A     | N/A         | N/A                | ADC12_IN5              | ADC12_IN6               | ADC12_IN     | N7 ADC12_IN | 8 <i>N/A</i> | N/A            | ADC12_IN9 DAC1_OUT1  | ADC12_IN10<br>DAC1_OUT2 | ADC12_IN11                   | ADC12_IN12               | ADC12_IN13 | ADC12_IN14 | ADC12_IN15      | ADC12_IN16     | N/A       | N/A        | N/A         | N/A       | N/A        | N/A         | N/A                         | N/A                     | N/A                       | N/A                       | N/A                        | N/A                          | N/A         | N/A          |
| FSMC        | FMC_A23  | FMC_A19 | 9 FMC_A2   | 20 FMC_/  | A21 FMC_A  | A22 N/A      | N/A                      | N/A        |            | N/A       | N/A          | N/A        | N/A        | N/A       | N/A     | N/A        | N/A          | N/A       | N/A          | N/A           | N/A     | N/A         | N/A                | N/A                    | N/A                     | N/A          | N/A         | N/A          | N/A            | N/A                  | N/A                     | N/A                          | N/A                      | N/A        | N/A        | N/A             | N/A            | N/A       | FMC_D4     | FMC_D5      | FMC_D6    | FMC_D7     | FMC_D8      | FMC_D9                      | FMC_D10                 | FMC_D11                   | FMC_D12                   | N/A                        | N/A                          | N/A         | N/A          |
|             |          |         |            |           |            |              |                          |            |            |           |              |            |            |           |         | LPTIM1_IN1 |              |           | LPTIM1_ETF   |               |         |             |                    | TIM2_CH1               | TIM2_CH2                | TIM2_CH3     | 3 TIM2_CH   | 1            |                |                      | TIM2_CH1                | TIM1_BKIN<br>TIM3_CH1        | TIM1_CH1N                |            |            | TIM1_CH2N       | TIM1_CH3N      |           |            |             |           |            |             |                             |                         | TIM1_CH4                  | TIM1_BKIN                 |                            |                              |             |              |
| Timers      | TIM3_ETR | TIM3_CH | H1 TIM3_CF | H2 TIM3_0 | СНЗ ТІМЗ_С | CH4 N/A      | N/A                      | N/A        |            | N/A       | N/A          | N/A        | N/A        | N/A       | N/A     |            | LPTIM1_OU    | LPTIM1_IN | 2            | N/A           | N/A     | N/A         | N/A                | TIM5_CH1               | TIM5_CH2                | TIM5_CH3     | 3 TIM5_CH   | 1 N/A        | N/A            | LPTIM2_OUT           | TIM2_ETR                | TIM8_BKIN<br>TIM1_BKIN_COMP2 | TIM3_CH2                 | N/A        | N/A        | TIM3_CH3        | TIM3_CH4       | LPTIM1_OU | T TIM1_ETR | TIM1_CH1N T | IM1_CH1 T | ΓΙΜ1_CH2N  | TIM1_CH2    | TIM1_CH3N                   | TIM1_CH3                | TIM1_BKIN2                |                           | TIM2_CH3                   | 3 TIM2_CH4                   | N/A         | N/A          |
| 1           |          |         |            |           |            |              |                          |            |            |           |              |            |            |           |         | LPTIM2_IN1 |              |           | LPTIM2_ETF   |               |         |             |                    | TIM8_ETR               | TIM15_CH1I              | N TIM15_CH   | H1 TIM15_CH | 2            |                |                      | TIM8_CH1N               | TIM8_BKIN_COMP2<br>TIM16_CH1 | TIM8_CH1N                |            |            | TIM8_CH2N       | TIM8_CH3N      |           |            |             |           |            |             |                             |                         | TIM1_BKIN2_COMP           | 2 TIM1_BKIN_CO            | MP1                        |                              |             |              |
| Comparators | N/A      | N/A     | N/A        | N/A       | A N/A      | 4 <i>N/A</i> | N/A                      | N/A        |            | N/A       | N/A          | N/A        | N/A        | N/A       | N/A     | N/A        | N/A          | N/A       | N/A          | N/A           | N/A     | N/A         | N/A                | N/A                    | N/A                     | N/A          | N/A         | N/A          | N/A            | N/A                  | N/A                     | N/A                          | N/A                      | COMP1_INM  | COMP1_INP  | COMP1_OUT       | COMP1_INM      | COMP1_INI | P N/A      | N/A         | N/A       | N/A        | N/A         | N/A                         | N/A                     | N/A                       | N/A                       | COMP1_OL                   | JT COMP2_OU                  | N/A         | N/A          |
| Op-Amps     | N/A      | N/A     | N/A        | N/A       | A N/A      | 4 <i>N/A</i> | N/A                      | N/A        |            | N/A       | N/A          | N/A        | N/A        | N/A       | N/A     | N/A        | N/A          | N/A       | N/A          | N/A           | N/A     | N/A         | N/A                | OPAMP1_VIN             | P OPAMP1_VIN            | M N/A        | OPAMP1_V    | OUT N/A      | N/A            | N/A                  | N/A                     | OPAMP2_VINP                  | OPAMP2_VINM              | N/A        | N/A        | OPAMP2_VOUT     | N/A            | N/A       | N/A        | N/A         | N/A       | N/A        | N/A         | N/A                         | N/A                     | N/A                       | N/A                       | N/A                        | N/A                          | N/A         | N/A          |
| Other       | TRACECK  | TRACEDO | O2 TSC_G7  | D1 TRACE  | ED2 TRACE  | ED3 N/A      | RTC_TAMPT RTC_TS RTC_OUT | OSC32_IN   | osc        | C32_OUT G | Ground Volta | age supply | OSC_IN     | OSC_OUT   | Reset   | N/A        | N/A          | N/A       | N/A          | Analog ground | N/A VRE | FBUF_OUT An | nalog voltage supp | RTC_TAMP2              | N/A                     | WKUP4        | N/A         | Ground       | Voltage supply | N/A                  | N/A                     | N/A                          | N/A                      | N/A        | WKUP5      | N/A             | N/A            | RTC_OUT   | N/A        | N/A         | N/A T     | SC_G5_IO1  | TSC_G5_IO2  | TSC_G5_IO3                  | TSC_G5_IO4              | N/A                       | N/A                       | N/A                        | N/A                          | Ground Volt | ltage supply |