

2.6.3. GD32VF103Cx LQFP48 pin definitions

Table 2-6. GD32VF103Cx LQFP48 pin definitions

Pin Name	Pins	Pin Type ⁽¹⁾	I/O Level ⁽²⁾	Functions description
V _{BAT}	1	Р		Default: V _{BAT}
PC13-				Default: PC13
TAMPER-	2	I/O		Alternate: TAMPER-RTC
RTC				
PC14-	3	I/O		Default: PC14
OSC32IN				Alternate: OSC32IN
PC15-	4	I/O		Default: PC15
OSC32OUT				Alternate: OSC32OUT
OSCIN	5	I		Default: OSCIN
				Remap: PD0
OSCOUT	6	0		Default: OSCOUT
				Remap: PD1
NRST	7	I/O		Default: NRST
V _{SSA}	8	Р		Default: V _{SSA}
V_{DDA}	9	Р		Default: V _{DDA}
		I/O		Default: PA0
PA0-WKUP	10			Alternate: WKUP, USART1_CTS, ADC01_IN0,
				TIMER1_CH0_ETI, TIMER4_CH0 ⁽³⁾
	11	I/O		Default: PA1
PA1				Alternate: USART1_RTS, ADC01_IN1,
				TIMER4_CH1 ⁽³⁾ ,TIMER1_CH1
	12	I/O		Default: PA2
PA2				Alternate: USART1_TX, TIMER4_CH2 ⁽³⁾ ,ADC01_IN2,
				TIMER1_CH2
	13	I/O		Default: PA3
PA3				Alternate: USART1_RX, TIMER4_CH3 ⁽³⁾ , ADC01_IN3,
				TIMER1_CH3
	14	I/O		Default: PA4
PA4				Alternate: SPI0_NSS, USART1_CK, ADC01_IN4
1 //4				DAC_OUT0
				Remap: SPI2_NSS ⁽³⁾ ,I2S2_WS ⁽³⁾
PA5	15	I/O		Default: PA5
				Alternate: SPI0_SCK, ADC01_IN5, DAC_OUT1
PA6	16	I/O		Default: PA6
				Alternate: SPI0_MISO, ADC01_IN6, TIMER2_CH0
				Remap: TIMER0_BRKIN
PA7	17	I/O		Default: PA7



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Pin Name	Pins	Pin Type ⁽¹⁾	I/O Level ⁽²⁾	Functions description
				Alternate: SPI0_MOSI, ADC01_IN7, TIMER2_CH1
				Remap: TIMER0_CH0_ON
				Default: PB0
PB0	18	I/O		Alternate: ADC01_IN8, TIMER2_CH2
				Remap: TIMER0_CH1_ON
		I/O		Default: PB1
PB1	19			Alternate: ADC01_IN9, TIMER2_CH3
				Remap: TIMER0_CH2_ON
PB2	20	I/O	5VT	Default: PB2, BOOT1
		I/O	5VT	Default: PB10
PB10	21			Alternate: I2C1_SCL ⁽³⁾ , USART2_TX ⁽³⁾
				Remap: TIMER1_CH2
				Default: PB11
PB11	22	I/O	5VT	Alternate: I2C1_SDA ⁽³⁾ , USART2_RX ⁽³⁾
				Remap: TIMER1_CH3
Vss_1	23	Р		Default: Vss_1
V _{DD_1}	24	Р		Default: V _{DD_1}
				Default: PB12
PB12	25	I/O	5VT	Alternate: SPI1_NSS ⁽³⁾ , I2S1_WS ⁽³⁾ , I2C1_SMBA ⁽³⁾ ,
				USART2_CK ⁽³⁾ , TIMER0_BRKIN, CAN1_RX
	26	I/O	5VT	Default: PB13
PB13				Alternate: SPI1_SCK ⁽³⁾ , I2S1_CK ⁽³⁾ , USART2_CTS ⁽³⁾ ,
				TIMER0_CH0_ON, CAN1_TX
	27	I/O	5VT	Default: PB14
PB14				Alternate: SPI1_MISO ⁽³⁾ , USART2_RTS ⁽³⁾ ,
				TIMER0_CH1_ON
DD45	28	I/O	5VT	Default: PB15
PB15				Alternate: SPI1_MOSI ⁽³⁾ , TIMER0_CH2_ON, I2S1_SD ⁽³⁾
		I/O	5VT	Default: PA8
PA8	29			Alternate: USART0_CK, TIMER0_CH0, CK_OUT0,
				USBFS_SOF
DAG	00	I/O	5VT	Default: PA9
PA9	30			Alternate: USART0_TX, TIMER0_CH1, USBFS_VBUS
DA40	31	I/O	5VT	Default: PA10
PA10				Alternate: USART0_RX, TIMER0_CH2, USBFS_ID
PA11	32	I/O	5VT	Default: PA11
				Alternate: USART0_CTS, CAN0_RX, TIMER0_CH3,
				USBFS_DM
PA12	33	I/O	5VT	Default: PA12
				Alternate: USART0_RTS, CAN0_TX, TIMER0_ETI,



Pin Name	Pins	Pin Type ⁽¹⁾	I/O Level ⁽²⁾	Functions description
				USBFS_DP
		I/O	5VT	Default: JTMS
PA13	34			Remap: PA13
V _{SS_2}	35	Р		Default: Vss_2
V_{DD_2}	36	Р		Default: V _{DD_2}
DALL	27	I/O	5VT	Default: JTCK
PA14	37			Remap: PA14
	38	I/O	5VT	Default: JTDI
PA15				Alternate:SPI2_NSS ⁽³⁾ , I2S2_WS ⁽³⁾
				Remap: TIMER1_CH0 _ETI, PA15, SPI0_NSS
		I/O	5VT	Default: JTDO
PB3	39			Alternate:SPI2_SCK ⁽³⁾ ,I2S2_CK ⁽³⁾
				Remap: PB3, TIMER1_CH1, SPI0_SCK
		I/O	5VT	Default: NJTRST
PB4	40			Alternate:SPI2_MISO ⁽³⁾
				Remap: TIMER2_CH0, PB4, SPI0_MISO
	41	I/O		Default: PB5
PB5				Alternate: I2C0_SMBA ,SP12_MOSI(3), I2S2_SD(3)
				Remap: TIMER2_CH1, SPI0_MOSI,CAN1_RX
	42	I/O	5VT	Default: PB6
PB6				Alternate: I2C0_SCL, TIMER3_CH0 ⁽³⁾
				Remap: USART0_TX,CAN1_TX
	43	I/O	5VT	Default: PB7
PB7				Alternate: I2C0_SDA, TIMER3_CH1(3)
				Remap: USART0_RX
воото	44	I		Default: BOOT0
	45	I/O	5VT	Default: PB8
PB8				Alternate: TIMER3_CH2 ⁽³⁾
				Remap: I2C0_SCL, CAN0_RX
	46	I/O	5VT	Default: PB9
PB9				Alternate: TIMER3_CH3 ⁽³⁾
				Remap: I2C0_SDA, CAN0_TX
V _{SS_3}	47	Р		Default: Vss_3
V_{DD_3}	48	Р		Default: V _{DD_3}

Notes:

- (1) Type: I = input, O = output, P = power.
- (2) I/O Level: 5VT = 5 V tolerant.
- (3) Functions are available in GD32VF103C8/B devices.