STM32F4297IGT6   LQFP176

Object Kind	X1	Y1	Orientation	Name	Pin
Pin	-450	440	180 Degrees	PE2/TRACECLK/SPI4_SCK/SAI1_MCLK_A/ETH_MII_TXD3/FMC_A23	1
Pin	-450	430	180 Degrees	PE3/TRACED0/SAI1_SD_B/FMC_A19	2
Pin	-450	420	180 Degrees	PE4/TRACED1/SPI4_NSS/SAI1_FS_A/FMC_A20/DCMI_D4/LCD_B0	3
Pin	-450	410	180 Degrees	PE5/TRACED2/TIM9_CH1/SPI4_MISO/SAI1_SCK_A/FMC_A21/DCMI_D6/LCD_G0	4
Pin	-450	400	180 Degrees	PE6/TRACED3/TIM9_CH2/SPI4_MOSI/SAI1_SD_A/FMC_A22/DCMI_D7/LCD_G1	5
Pin	-450	390	180 Degrees	VBAT	6
Pin	-450	380	180 Degrees	PI8/TAMP_2	7
Pin	-450	370	180 Degrees	PC13/TEMP_1	8
Pin	-450	360	180 Degrees	PC14/OSC32_IN	9
Pin	-450	350	180 Degrees	PC15/OSC32_OUT	10
Pin	-450	340	180 Degrees	PI9/CAN1_RX/FMC_D30/LCD_VSYNC	11
Pin	-450	330	180 Degrees	PI10/ETH_MII_RX_ER/FMC_D31/LCD_HSYNC	12
Pin	-450	320	180 Degrees	PI11/OTG_HS_ULPI_DIR	13
Pin	-450	310	180 Degrees	VSS	14
Pin	-450	300	180 Degrees	VDD	15
Pin	-450	290	180 Degrees	PF0/I2C2_SDA/FMC_A0	16
Pin	-450	280	180 Degrees	PF1/I2C2_SCL/FMC_A1	17
Pin	-450	270	180 Degrees	PF2/I2C2_SMBA/FMC_A2	18
Pin	-450	260	180 Degrees	PF3/FMC_A3/ADC3_IN9	19
Pin	-450	250	180 Degrees	PF4/FMC_A4/ADC3_IN14	20
Pin	-450	240	180 Degrees	PF5/FMC_A5/ADC3_IN15	21
Pin	-450	230	180 Degrees	VSS	22
Pin	-450	220	180 Degrees	VDD	23
Pin	-450	210	180 Degrees	PF6/TIM10_CH1/SPI5_NSS/SAI1_SD_B/UART7_RX/FMC_NIORD/ADC3_IN4	24
Pin	-450	200	180 Degrees	PF7/TIM11_CH1/SPI5_SCK/SAI1_MCLK_B/UART7_TX/FMC_NREG/ADC3_IN5	25
Pin	-450	190	180 Degrees	PF8/SPI5_MISO/SAI1_SCK_B/TIM13_CH1/FMC_NIOWR/ADC3_IN6	26
Pin	-450	180	180 Degrees	PF9/SPI5_MOSI/SAI1_FS_B/TIM14_CH1/FMC_CD/ADC3_IN7	27
Pin	-450	170	180 Degrees	PF10/FMC_INTR/DCMI_D11/LCD_DE/ADC_IN8	28
Pin	-450	160	180 Degrees	PH0/OSC_IN	29
Pin	-450	150	180 Degrees	PH1/OSC_OUT	30
Pin	-450	140	180 Degrees	NRST	31
Pin	-450	130	180 Degrees	PC0/OTG_HS_ULPI_STP/FMC_SDNWE/ADC123_IN10	32
Pin	-450	120	180 Degrees	PC1/ETH_MDC/ADC123_IN11	33
Pin	-450	110	180 Degrees	PC2/SPI2_MISO/I2S2ext_SD/OTG_HS_ULPI_DIR/ETH_MII_TXD2/FMC_SDNE0/ADC123_IN12	34
Pin	-450	100	180 Degrees	PC3/SPI2_MOSI/I2S2_SD/OTG_HS_ULPI_NXT/ETH_MII_TX_CLK/FMC_SDCKE0/ADC123_IN13	35
Pin	-450	90	180 Degrees	VDD	36
Pin	-450	80	180 Degrees	VSSA	37
Pin	-450	70	180 Degrees	VREF+	38
Pin	-450	60	180 Degrees	VDDA	39

Pin	-450	50	180 Degrees	PA0-WKUP/TIM2_CH1/TIM2_ETR/TIM5_CH1/TIM8_ETR/USART4_TX/ETH_MII_CRS/ADC123_IN0	40
Pin	-450	40	180 Degrees	PA1/TIM2_CH2/TIM5_CH2/USART2_RTS/UART4_RX/ETH_MII_RX_CLK/ETH_RMII_REF_CLK/ADC123_IN1	41
Pin	-450	30	180 Degrees	PA2/TIM2_CH3/TIM5_CH3/TIM9_CH1/USART2_TX/ETH_MDIO/ADC123_IN2	42
Pin	-450	20	180 Degrees	PH2/ETH_MII_CRS/FMC_SDCKE0/LCD_R0	43
Pin	-450	10	180 Degrees	PH3/ETH_MII_COL/FMC_SDNE0/LCD_R1	44
Pin	-450	-10	180 Degrees	PH4/I2C2_SCL/OTG_HS_ULPI_NXT	45
Pin	-450	-20	180 Degrees	PH5/I2C2_SDA/SPI5_NSS/FMC_SDNWE	46
Pin	-450	-30	180 Degrees	PA3/TIM2_CH4/TIM5_CH4/TIM9_CH2/USART2_RX/OTG_HS_ULPI_D0/ETH_MII_COL/LCD_B5/ADC123_IN3	47
Pin	-450	-40	180 Degrees	BYPASS_REG	48
Pin	-450	-50	180 Degrees	VDD	49
Pin	-450	-60	180 Degrees	PA4/SPI1_NSS/SPI3_NSS/I2S3_WS/USART2_CK/OTG_HS_SOF/DCMI_HSYNC/LCD_VSYNC/ADC12_IN4/DAC_OUT1	50
Pin	-450	-70	180 Degrees	PA5/TIM2_CH1/TIM2_ETR/TIM8_CH1N/SPI1_SCK/OTG_HS_ULPI_CK/ADC12_IN5/DAC_OUT2	51
Pin	-450	-80	180 Degrees	PA6/TIM1_BKIN/TIM3_CH1/TIM8_BKIN/SPI1_MISO/TIM13_CH1/DCMI_PIXCLK/LCD_G2/ADC12_IN6	52
Pin	-450	-90	180 Degrees	PA7/TIM1_CH1N/TIM3_CH2/TIM8_CH1N/SPI1_MOSI/TIM14_CH1/ETH_MII_RX_DV/ETH_RMII_CRS_DV/ADC12_IN7	53
Pin	-450	-100	180 Degrees	PC4/ETH_MII_RXD0/ETH_RMII_RXD0/ADC12_IN14	54
Pin	-450	-110	180 Degrees	PC5/ETH_MII_RXD1/ETH_RMII_RXD1/ADC12_IN15	55
Pin	-450	-120	180 Degrees	PB0/TIM1_CH2N/TIM3_CH3/TIM8_CH2N/LCD_R3/OTG_HS_ULPI_D1/ETH_MII_RXD2/ADC12_IN8	56
Pin	-450	-130	180 Degrees	PB1/TIM1_CH3N/TIM3_CH4/TIM8_CH3N/LCD_R6/OTG_HS_ULPI_D2/ETH_MII_RXD3/ADC12_IN9	57
Pin	-450	-140	180 Degrees	PB2/BOOT1	58
Pin	-450	-150	180 Degrees	PF11/SPI5_MOSI/FMC_SDNRAS/DCMI_D12	59
Pin	-450	-160	180 Degrees	PF12/FMC_A6	60
Pin	-450	-170	180 Degrees	VSS	61
Pin	-450	-180	180 Degrees	VDD	62
Pin	-450	-190	180 Degrees	PF13/FMC_A7	63
Pin	-450	-200	180 Degrees	PF14/FMC_A8	64
Pin	-450	-210	180 Degrees	PF15/FMC_A9	65
Pin	-450	-220	180 Degrees	PG0/FMC_A10	66
Pin	-450	-230	180 Degrees	PG1/FMC_A11	67
Pin	-450	-240	180 Degrees	PE7/TIM1_ETR/UART7_RX/FMC_D4	68
Pin	-450	-250	180 Degrees	PE8/TIM1_CH1N/UART7_TX/FMC_D5	69
Pin	-450	-260	180 Degrees	PE9/TIM1_CH1/FMC_D6	70
Pin	-450	-270	180 Degrees	VSS	71
Pin	-450	-280	180 Degrees	VDD	72
Pin	-450	-290	180 Degrees	PE10/TIM1_CH2N/FMC_D7	73
Pin	-450	-300	180 Degrees	PE11/TIM1_CH2/SPI4_NSS/FMC_D8/LCD_G3	74
Pin	-450	-310	180 Degrees	PE12/TIM1_CH3N/SPI4_SCK/FMC_D9/LCD_B4	75
Pin	-450	-320	180 Degrees	PE13/TIM1_CH3/SPI4_MISO/FMC_D10/LCD_DE	76
Pin	-450	-330	180 Degrees	PE14/TIM1_CH4/SPI4_MOSI/FMC_D11/LCD_CLK	77
Pin	-450	-340	180 Degrees	PE15/TIM1_BKIN/FMC_D12/LCD_R7	78

Pin	-450	-350	180 Degrees	PB10/TIM2_CH3/I2C2_SCL/SPI2_SCK/I2S2_CK/USART3_TX/OTG_HS_ULPI_D3/ETH_MII_RX_ER/LCD_G4	79
Pin	-450	-360	180 Degrees	PB11/TIM2_CH4/I2C2_SDA/USART3_RX/OTG_HS_ULPI_D4/ETH_MII_TX_EN/ETH_RMII_TX_EN/LCD_G5	80
Pin	-450	-370	180 Degrees	VCAP_1	81
Pin	-450	-380	180 Degrees	VDD	82
Pin	-450	-390	180 Degrees	PH6/I2S2_SMBA/SPI5_SCK/TIM12_CH1/ETH_MII_RXD2/FMC_SDNE1/DCMI_D8	83
Pin	-450	-400	180 Degrees	PH7/I2S3_SCL/SPI5_MISO/ETH_MII_RXD3/FMC_SDCKE1/DCMI_D9	84
Pin	-450	-410	180 Degrees	PH8/I2C3_SDA/FMC_D16/DCMI_HSYNC/LCD_R2	85
Pin	-450	-420	180 Degrees	PH9/I2C3_SMBA/TIM2_CH2/FMC_D17/DCMI_D0/LCD_R3	86
Pin	-450	-430	180 Degrees	PH10/TIM5_CH1/FMC_D18/DCMI_D1/LCD_R4	87
Pin	-450	-440	180 Degrees	PH11/TIM5_CH2/FMC_D19/DCMI_D2/LCD_R5	88
Pin	450	-440	0 Degrees	PH12/TIM5_CH3/FMC_D20/DCMI_D3/LCD_R6	89
Pin	450	-430	0 Degrees	VSS	90
Pin	450	-420	0 Degrees	VDD	91
Pin	450	-410	0 Degrees	PB12/TIM1_BKIN/I2C2_SMBA/SPI2_NSS/I2S2_WS/USART3_CK/CAN2_RX/OTG_HS_ULPI_D5/ETH_MII_TXD0/ETH_RMII_TXD0/OTG_HS_ID	92
Pin	450	-400	0 Degrees	PB13/TIM1_CH1N/SPI2_SCK/I2S2_CK/USART3_CTS/CAN2_TX/OTG_HS_ULPI_D6/ETH_MII_TXD1/ETH_RMII_TXD1/OTG_HS_VBUS	93
Pin	450	-390	0 Degrees	PB14/TIM1_CH2N/TIM8_CH2N/SPI2_MISO/I2S2ext_SD/USART3_RTS/TIM12_CH1/OTG_HS_DM	94
Pin	450	-380	0 Degrees	PB15/RTC_REFIN/TIM1_CH3N/TIM8_CH3N/SPI2_MOSI/I2S2_SD/TIM12_CH2/OTG_HS_DP	95
Pin	450	-370	0 Degrees	PD8/USART3_TX/FMC_D13	96
Pin	450	-360	0 Degrees	PD9/USART3_RX/FMC_D14	97
Pin	450	-350	0 Degrees	PD10/USART3_CK/FMC_D15/LCD_B3	98
Pin	450	-340	0 Degrees	PD11/USART3_CTS/FMC_A16	99
Pin	450	-330	0 Degrees	PD12/TIM4_CH1/USART3_RTS/FMC_A17	100
Pin	450	-320	0 Degrees	PD13/TIM4_CH2/FMC_A18	101
Pin	450	-310	0 Degrees	VSS	102
Pin	450	-300	0 Degrees	VDD	103
Pin	450	-290	0 Degrees	PD14/TIM4_CH3/FMC_D0	104
Pin	450	-280	0 Degrees	PD15/TIM4_CH4/FMC_D1	105
Pin	450	-270	0 Degrees	PG2/FMC_A12	106
Pin	450	-260	0 Degrees	PG3/FMC_A13	107
Pin	450	-250	0 Degrees	PG4/FMC_A14/FMC_BA0	108
Pin	450	-240	0 Degrees	PG5/FMC_A15/FMC_BA1	109
Pin	450	-230	0 Degrees	PG6/FMC_INT2/DCMI_D12/LCD_R7	110
Pin	450	-220	0 Degrees	PG7/USART6_CK/FMC_INT3/DCMI_D13/LCD_CLK	111
Pin	450	-210	0 Degrees	PG8/SPI6_NSS/USART6_RTS/ETH_PPS_OUT/FMC_SDCLK	112
Pin	450	-200	0 Degrees	VSS	113
Pin	450	-190	0 Degrees	VDD	114
Pin	450	-180	0 Degrees	PC6/TIM3_CH1/TIM8_CH1/I2S2_MCK/USART6_TX/SDIO_D6/DCMI_D0/LCD_HSYNC	115
Pin	450	-170	0 Degrees	PC7/TIM3_CH2/TIM8_CH2/I2S3_MCK/USART6_RX/SDIO_D7/DCMI_D1/LCD_G6	116
Pin	450	-160	0 Degrees	PC8/TIM3_CH3/TIM8_CH3/USART6_CK/SDIO_D0/DCMI_D2	117

Pin	450	-150	0 Degrees	PC9/MCO2/TIM3_CH4/TIM8_CH4/I2C3_SDA/I2S_CKIN/SDIO_D1/DCMI_D3	118
Pin	450	-140	0 Degrees	PA8/MCO1/TIM1_CH1/I2C3_SCL/USART1_CK/OTG_FS_SOF/LCD_R6	119
Pin	450	-130	0 Degrees	PA9/TIM1_CH2/I2C3_SMBA/USART1_TX/DCMI_D0/OTG_FS_VBUS	120
Pin	450	-120	0 Degrees	PA10/TIM1_CH3/USART1_RX/OTG_FS_ID/DCMI_D1	121
Pin	450	-110	0 Degrees	PA11/TIM1_CH4/USART1_CTS/CAN1_RX/LCD_R4/OTG_FS_DM	122
Pin	450	-100	0 Degrees	PA12/TIM1_ETR/USART1_RTS/CAN1_TX/LCD_R5/OTG_FS_DP	123
Pin	450	-90	0 Degrees	PA13/JTMS_SWDIO	124
Pin	450	-80	0 Degrees	VCAP_2	125
Pin	450	-70	0 Degrees	VSS	126
Pin	450	-60	0 Degrees	VDD	127
Pin	450	-50	0 Degrees	PH13/TIM8_CH1N/CAN1_TX/FMC_D21/LCD_G2	128
Pin	450	-40	0 Degrees	PH14/TIM8_CH2N/FMC_D22/DCMI_D4/LCD_G3	129
Pin	450	-30	0 Degrees	PH15/TIM8_CH3N/FMC_D23/DCMI_D11/LCD_G4	130
Pin	450	-20	0 Degrees	PI0/TIM5_CH4/SPI2_NSS/I2S2_WS/FMC_D24/DCMI_D13/LCD_G5	131
Pin	450	-10	0 Degrees	PI1/SPI2_SCK/I2S2_CK/FMC_D25/DCMI_D8/LCD_G6	132
Pin	450	10	0 Degrees	PI2/TIM8_CH4/SPI2_MISO/I2S2ext_SD/FMC_D26/DCMI_D9/LCD_G7	133
Pin	450	20	0 Degrees	PI3/TIM8_ETR/SPI2_MOSI/I2S2_SD/FMC_D27/DCMI_D10	134
Pin	450	30	0 Degrees	VSS	135
Pin	450	40	0 Degrees	VDD	136
Pin	450	50	0 Degrees	PA14/JTCK_SWCLK	137
Pin	450	60	0 Degrees	PA15/JTDI/TIM2_CH1/TIM2_ETR/SPI1_NSS/SPI3_NSS/I2S3_WS	138
Pin	450	70	0 Degrees	PC10/SPI3_SCK/I2S3_CK/USART3_TX/UART4_TX/SDIO_D2/DCMI_D8/LCD_R2	139
Pin	450	80	0 Degrees	PC11/I2S3ext_SD/SPI3_MISO/USART3_RX/UART4_RX/SDIO_D3/DCMI_D4	140
Pin	450	90	0 Degrees	PC12/SPI3_MOSI/I2S3_SD/USART3_CK/UART5_TX/SDIO_CK/DCMI_D9	141
Pin	450	100	0 Degrees	PD0/CAN1_RX/FMC_D2	142
Pin	450	110	0 Degrees	PD1/CAN1_TX/FMC_D3	143
Pin	450	120	0 Degrees	PD2/TIM3_ETR/UART5_RX/SDIO_CMD/DCMI_D11	144
Pin	450	130	0 Degrees	PD3/SPI2_SCK/I2S2_CK/USART2_CTS/FMC_CLK/DCMI_D5/LCD_G7	145
Pin	450	140	0 Degrees	PD4/USART2_RTS/FMC_NOE	146
Pin	450	150	0 Degrees	PD5/USART2_TX/FMC_NWE	147
Pin	450	160	0 Degrees	VSS	148
Pin	450	170	0 Degrees	VDD	149
Pin	450	180	0 Degrees	PD6/SPI3_MOSI/I2S3_SD/SAI1_SD_A/USART2_RX/FMC_NWAIT/DCMI_D10/LCD_B2	150
Pin	450	190	0 Degrees	PD7/USART2_CK/FMC_NE1/FMC_NCE2	151
Pin	450	200	0 Degrees	PG9/USART6_RX/FMC_NE2/FMC_NCE3/DCMI_VSYNC	152
Pin	450	210	0 Degrees	PG10/LCD_G3/FMC_NCE4_1/FMC_NE3/DCMI_D2/LCD_B2	153
Pin	450	220	0 Degrees	PG11/ETH_MII_TX_EN/ETH_RMII_TX_EN/FMC_NCE4_2/DCMI_D3/LCD_B3	154
Pin	450	230	0 Degrees	PG12/SPI6_MISO/USART6_RTS/LCD_B4/FMC_NE4/LCD_B1	155
Pin	450	240	0 Degrees	PG13/SPI6_SCK/USART6_CTS/ETH_MII_TXD0/ETH_RMII_TXD0/FMC_A24	156

Pin	450	250	0 Degrees	PG14/SPI6_MOSI/USART6_TX/ETH_MII_TXD1/ETH_RMII_TXD1/FMC_A25	157
Pin	450	260	0 Degrees	VSS	158
Pin	450	270	0 Degrees	VDD	159
Pin	450	280	0 Degrees	PG15/USART6_CTS/FMC_SDNCAS/DCMI_D13	160
Pin	450	290	0 Degrees	PB3/JTDO/TRACESWO/TIM2_CH2/SPI1_SCK/SPI3_SCK/I2S3_CK	161
Pin	450	300	0 Degrees	PB4/NJTRST/TIM3_CH1/SPI1_MISO/SPI3_MISO/I2S3ext_SD	162
Pin	450	310	0 Degrees	PB5/TIM3_CH2/I2C1_SMBA/SPI1_MOSI/SPI3_MOSI/I2S3_SD/CAN2_RX/OTG_HS_ULPI_D7/ETH_PPS_OUT/FMC_SDCKE1/DCMI_D10	163
Pin	450	320	0 Degrees	PB6/TIM4_CH1/I2C1_SCL/USART1_TX/CAN2_TX/FMC_SDNE1/DCMI_D5	164
Pin	450	330	0 Degrees	PB7/TIM4_CH2/I2C1_SDA/USART1_RX/FMC_NL/DCMI_VSYNC	165
Pin	450	340	0 Degrees	BOOT0	166
Pin	450	350	0 Degrees	PB8/TIM4_CH3/TIM10_CH1/I2C1_SCL/CAN1_RX/ETH_MII_TXD3/SDIO_D4/DCMI_D6/LCD_B6	167
Pin	450	360	0 Degrees	PB9/TIM4_CH4/TIM11_CH1/I2C1_SDA/SPI2_NSS/I2S2_WS/CAN1_TX/SDIO_D5/DCMI_D7/LCD_B7	168
Pin	450	370	0 Degrees	PE0/TIM4_ETR/UART8_RX/FMC_NBL0/DCMI_D2	169
Pin	450	380	0 Degrees	PE1/UART8_TX/FMC_NBL1/DCMI_D3	170
Pin	450	390	0 Degrees	PDR_ON	171
Pin	450	400	0 Degrees	VDD	172
Pin	450	410	0 Degrees	PI4/TIM8_BKIN/FMC_NBL2/DCMI_D5/LCD_B4	173
Pin	450	420	0 Degrees	PI5/TIM8_CH1/FMC_NBL3/DCMI_VSYNC/LCD_B5	174
Pin	450	430	0 Degrees	PI6/TIM8_CH2/FMC_D28/DCMI_D6/LCD_B6	175
Pin	450	440	0 Degrees	PI7/TIM8_CH3/FMC_D29/DCMI_D7/LCD_B7	176

Object Kind   X1 X   Y1 Y   Orientation   (   )   Name   Pin Designator
                 Altium Designer   STM32F429Ixxx(STM32F427Ixxx)   (Smart Grid Insert)

2016   7   18   STM32F42xxx   (   )   DocID024030 Rev 9

by Brendonman

2017/2/14