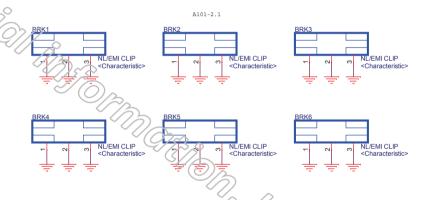
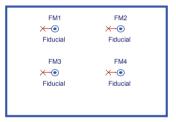
DESCRIPTION	PAGE
Title Page	1
SYSTEM SŁOCK DIAG.	2
POWER BLOCK DIAG.	3
POWER ON SEQ.	4
WM-BN-BM-22	5
JTAG	6
M2.COM	7
Mapping	8///
HISTORY	9
5	4

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Fiducial Mark

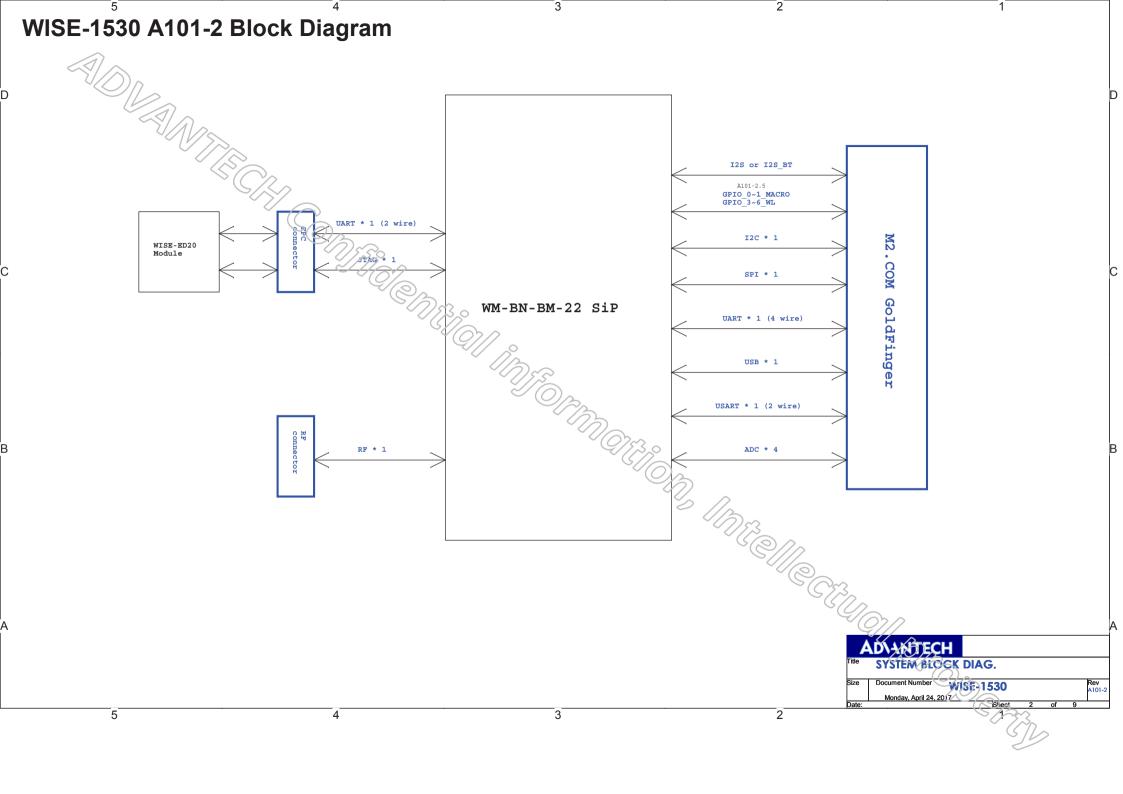


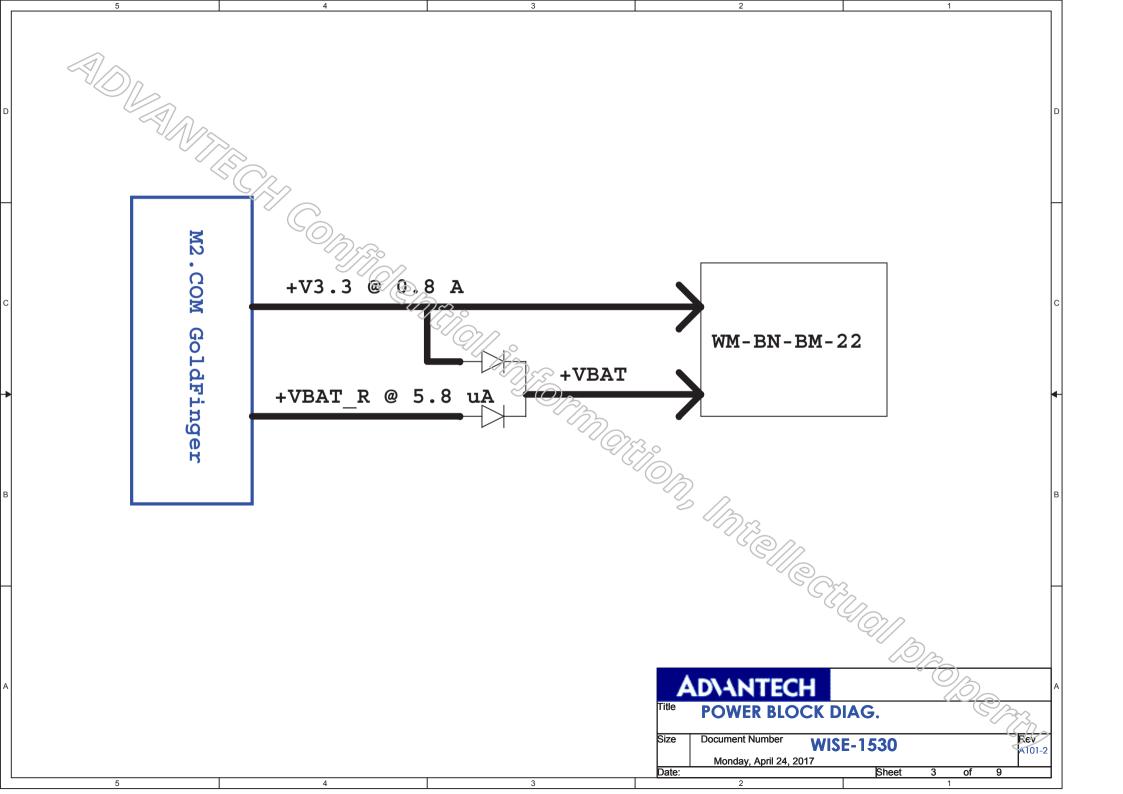
M2.COM Part_Number_USI = 19A6153001-01

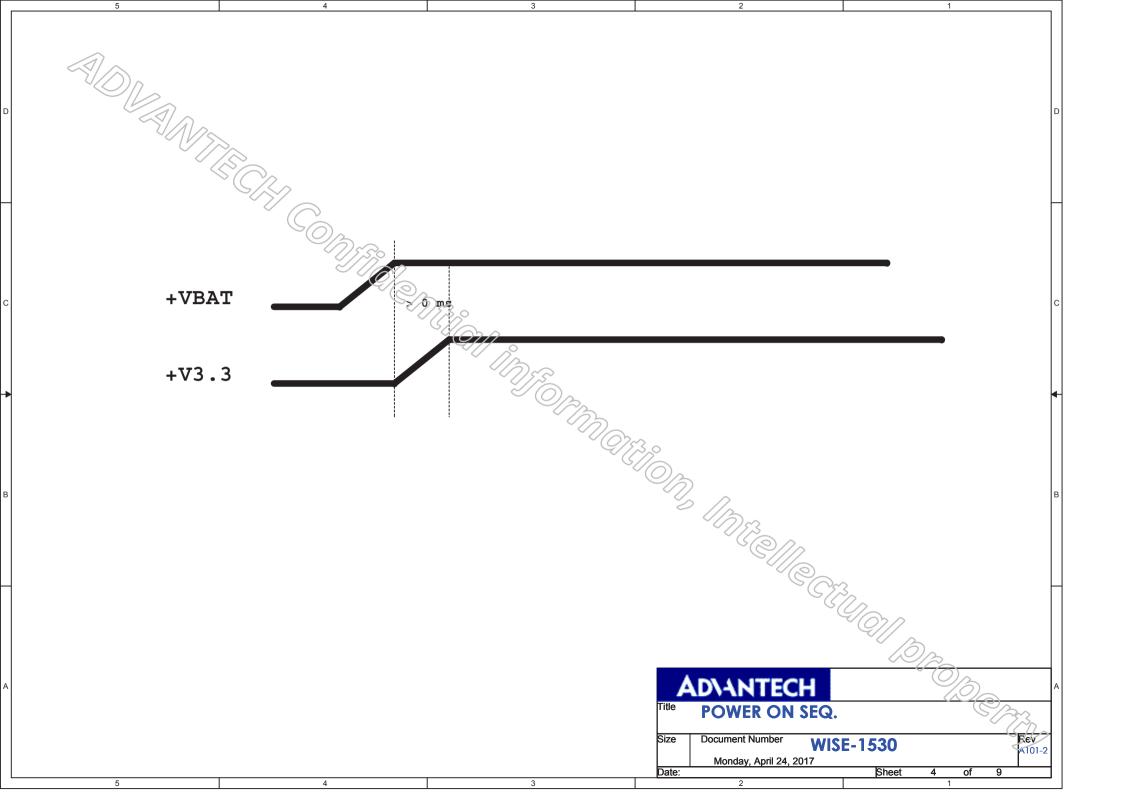
Title Page
Size B Document Number A101-2

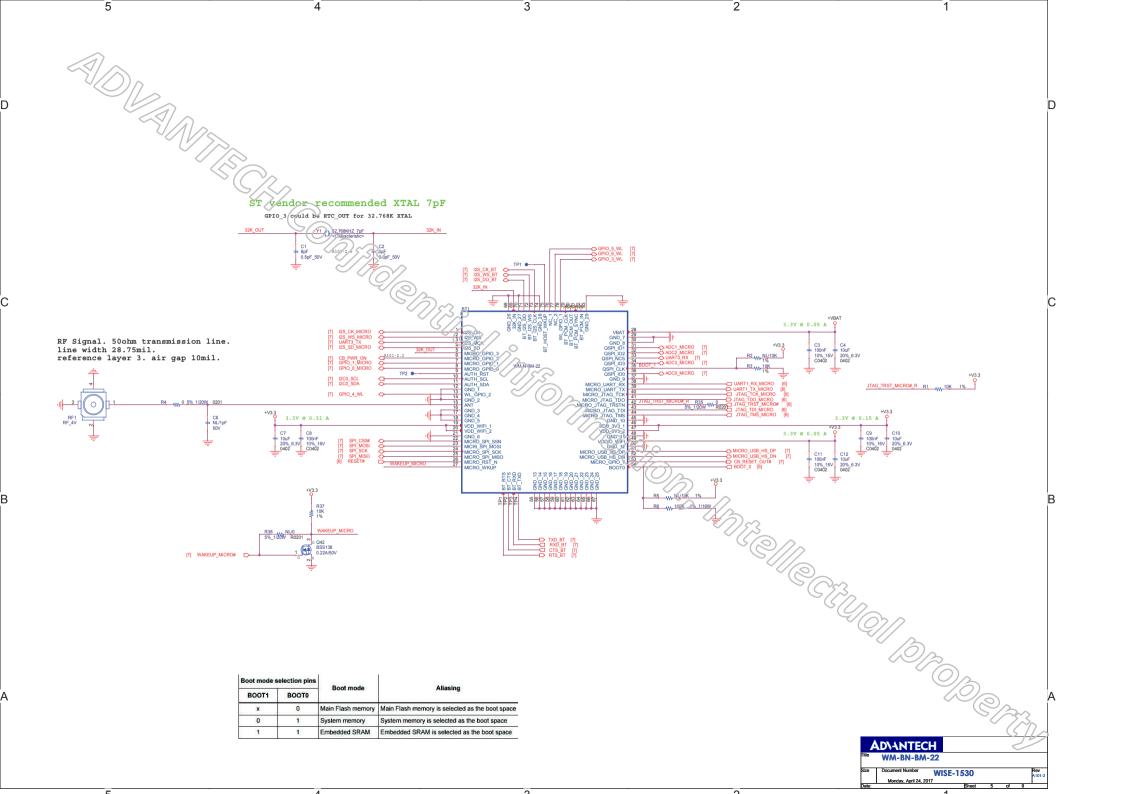
WISE-1530 Rev A101-2

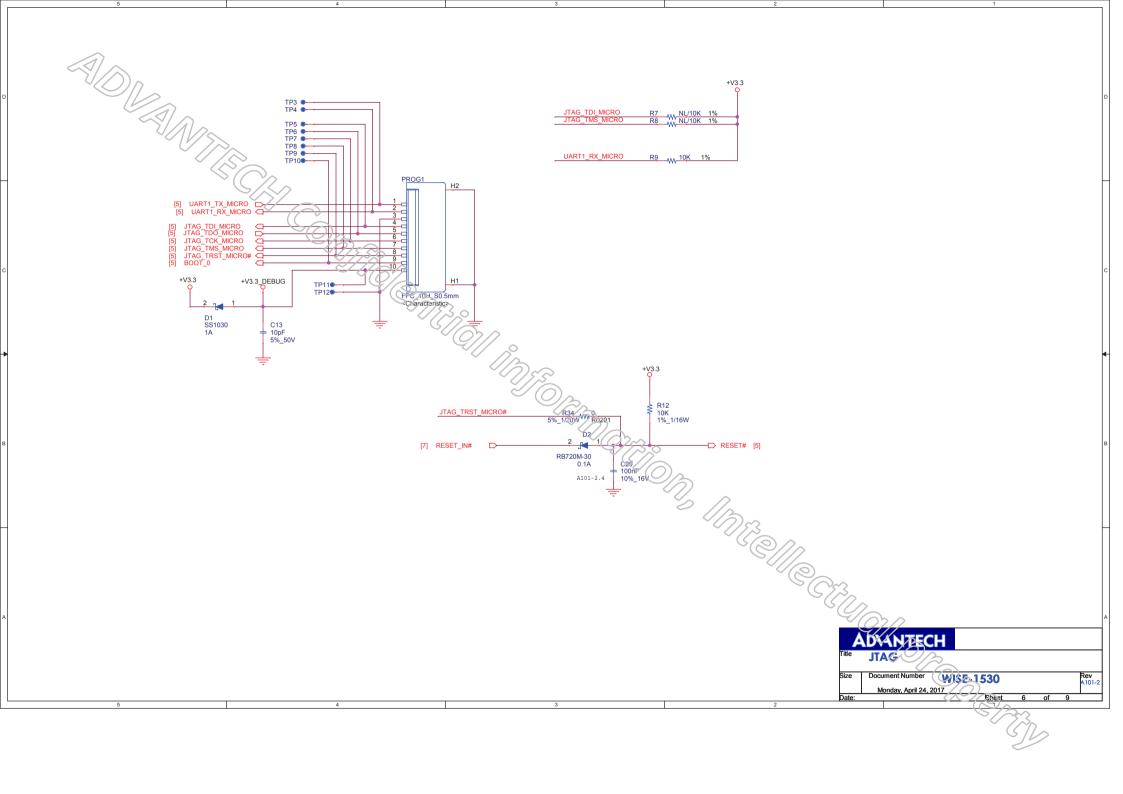
Monday, April 24, 2017 Sheet

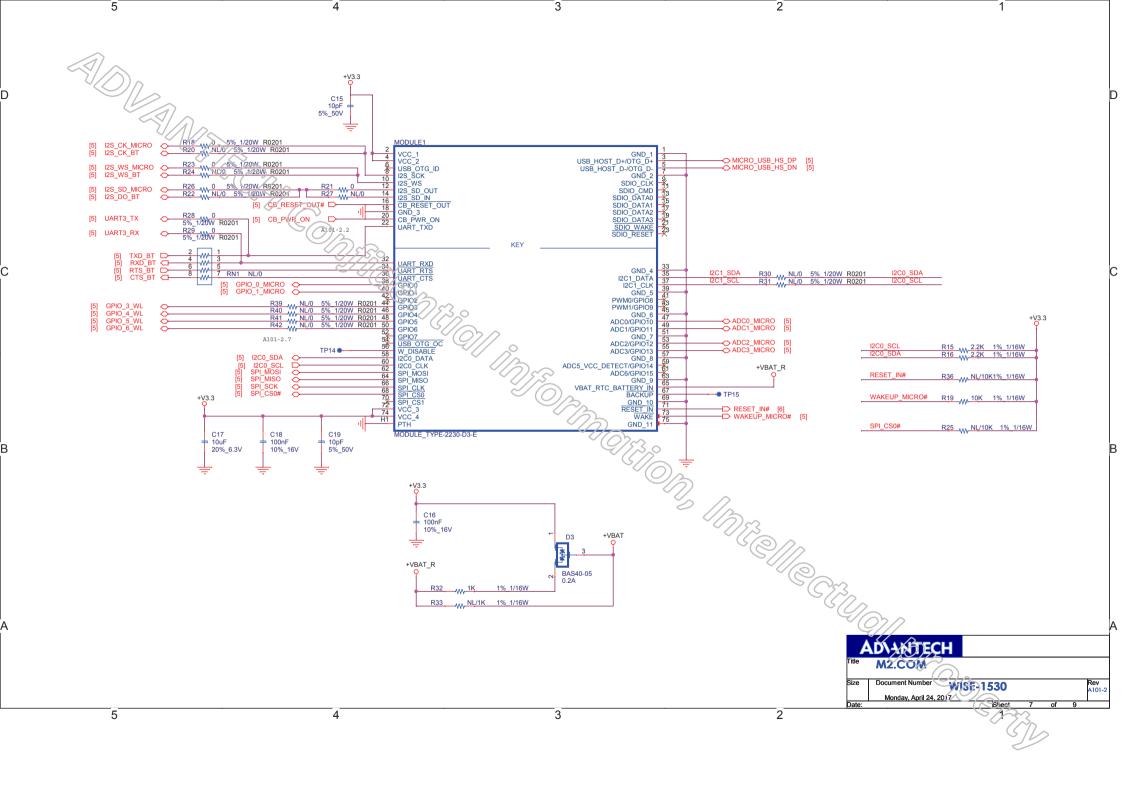












USI / WM-E	USI / WM-BN-BM-22 STM32F412RG (LQFP64)						WISE-1530 Configuration				SI / WM-BN-BM-22	STM32F412RG (LQFF64)						WISE-1530 Configuration			
ı-No	Symbol	Pin-No	Pin Name (Funtion After Reset)		e I/O Structur	Alternate e Function	Additional	M2.COM Pin-No	S/W Prog.	Signal Name	Pin-No	Symbol	Pin-No	Pin Name		I/O Structure	Alternate	Additional	M2.COM Pin-No	S/W Prog.	Signal Name
			(Funiton Affer Resel)		Structur	TIMI_BKIN, I2C2_SMBA, SPI2_NSS/I2S2_WS,	Function							(Funtion After Reset)			I2CFMP1_SMBA, USART3_RX,	Function			
						SP14_NSS/12S4_WS, SP13_SCK/12S3_CK,					34	qSPI_IO3	25	G5(PC5)	1/0	FT	QUADSPI_BK2_IO3,	ADC1_15	55	ADC1_15	ADC3_MICRO
12s_ck		33	G3(PB12)	1/0	FT	USART3_CK, CAN2_RX,	(-)	8	1283_CK	I2S_CK_MICRO		CONTRACTOR OF THE PARTY OF THE					FSMC_NOE, EVENTOUT DFSDM1_CKIN0,	00000000	0000		200000 8
	_					DFSDMI_DATINI, FSMC_D13/FSMC_DA13,					35	qSPI_CLK	28	G4(PB2)	1/0	FT	QUADSPI_CLK, EVENTOUT	BOOT1	NA	BOOTI	BOOT_1
				1		EVENTOUT SPIL_NSS/I2SI_WS,											TIM1_BKIN, TIM3_CH1, TIM8_BKIN, SPI1_MISO,				
2 I2S_WS	$\langle \langle 1/ $	20	G6(PA4)	1/0	FT	SP13_NSS/I2S3_WS, USART2_CK,	ADC1_4	10	1253_WS	I2S_WS_MICRO	36	qSPI_IOO	22	H6(PA6)	1/0	FT	I2S2_MCK, TIM13_CH1, QUADSPI_BK2_IOO,	ADCI_6	47	ADC1_6	ADCO_MICRO
	\bigcirc //	11				DFSDM1_DATIN1, FSMC_D6, EVENTOUT				0.0 0.0	37	GND					SDIO_CMD, EVENTOUT		GND		GND
		11/	/5\			TIM2_CH3, I2C2_SCL, SPI2_SCK/I2S2_CK,											TIM1_CH3, SPI5_MOSI/I2S5_SD,				
3 12S_MCK	K.	29	H4(FB10)	I/O	FT	I2S3_MCK, USART3_TX, I2CFMP1_SCL, SDIO_D7,	100	22 (Option)	USART3_TX	USART_TX	38	MICRO_UART_RX	43	D2(PA10)	1/0	FT	USARTI_RX,		32 (Option)	USART1_RX	UART_RX_MICRO
		_ <	//\\			EVENTOUT											USB_FS_ID, EVENTOUT TIM1_CH2, I2C3_SMBA,				
4 12S_SD		53	A3(PG12)	10	FT	SPI3_MOSI/I2S3_SD, USART3_CK, FSMC_D3,	150	12	1283_SD	I2S_SD_MICRO	39	MICRO_UART_TX	42	D1(PA9)	I/O	FT	USARTI_TX, USB_FS_VBUS,	0	22 (Option)	USARTI_TX	UART_TX_MICRO
5 MICRO_	GNO 3	4	C7(PC15)	110		SDIO_CK, EVENTOUT EVENTOUT	OSC32_	-	_	.32K_OUT	40	MICRO_ITAG_TCK	49	B2(PA14)	1/0	FT	SDIO_D2, EVENTOUT ITCK-SWCLK,		NA	JTCK-SWCLK	JTAG_TCK_MICRO
J MICKO_	0110_5	*	Citicis C		**	TIMI_CH3N, TIM3_CH4,	OUT	7		328,2001	40	BICKOJITAOJICK	49	52(1814)	10	E1	EVENTOUT JTDO-SWO, TIM2_CH2,		NA.	HEROWEEK	Trao_tex_miexo
					1	TIM8 CH3N, SPI5 NSE/CES5 WS.											IZCFMPI_SDA, SPII_SCK/IZSI_CK,				
6 MICRO_	_GPIO_2	27	F4(PB1)	1/0	FT	DFSDMI_DATINO, QUADSPI CLK,	ADC1_9	20	CB_PWR_ON	CB_PWR_ON	41	MICRO_ITAG_TDO	55	A5(PB3)	1/0	ET	SPI3_SCK/I2S3_CK, USARTI_RX,I2C2_SDA,		NA	JTDO-SW0	JTAG_TDO_MICRO
						EVENTOUT											EVENTOUT				
7 MICRO_	GPIO I	26	H5(PB0)	1/0	FT	TIMI_CHEN, TIM3_CHE, TIM8_CHZN,	MOCL 8	40	GPIO	GPIO_1_MICRO	42	MICRO_JTAG_TRSTN	56	B4(PB4)	1/0	FT	JTRST, TIM3_CH1, SPIL_MISO, SPI3_MISO,		NA	JTRST	JTAG_TRST_MICRO
3323182		J	50500,000		500	SPI5_SCK/I2S3_EK, EVENTOUT	225		2002			22-1202-12030		20000		1.5	I2S3ext_SD, I2C3_SDA, SDIO_DO, EVENTOUT				
						TIM2_CHI/TIM2_ETP TIM8_CHIN,	1///										ITDI, TIM2_CH1/TIM2_BTR,				
8 MICRO_	GPIO_0	21	F5(PA5)	I/O	FT	SPIL_SCK/I2SI_CK, DFSDM1 CKIN1.	ADGI_5	38	GPIO	GPIO_0_MICRO	43	MICRO_ITAG_TDI	50	A2(PA15)	1/0	ET	SPII_NSS/I2SI_WS, SPI3_NSS/I2S3_WS,	-	NA	ITDI	JTAG_TDI_MICRO
9 AUTH_R	PCT	2	B8(PC13)	WO	FT	FSMC_D7, EVENTOUT EVENTOUT	TAMP_1	449.	D								USARTI_TX, EVENTOUT ITMS-SWDIO,				
ino mg. n			20(1013)	10		TIM4_CH1, I2C1_SCL, USART1_TX, CAN2_TX,	TIIMI_I		2)~			MICRO_ITAG_TMS	46	C2(PA13)	1/0	FT	EVENTOUT	0	NA	JTMS-SWDIO	JTAG_TMS_MICRO
10 AUTH_S	SCL	58	B5(PB6)	I/O	FT	QUADSPI_BK1_NCS,	(8)	60	12C1_SCL	IZCO_SCL	46	GND VDD_3V3							GND VCC		GND +V3.3
			909 000			SDIO_DO, EVENTOUT TIM4_CH2, I2C1_SDA,			5//		48	VDD_3V3 GND							VCC GND		+V3,3 GND
AUTH_S	SDA	59	A6(PB7)	1/0	FT	USARTI_RX, FSMC_NL, EVENTOUT	128	58	I2C1_SDA	DOO SDA		VDDIO_WIFI GND							VCC GND		+V3.3 GND
GND RF_SW_0	CTRL.		20000000000000000000000000000000000000	-		7		GND 46		OPIO_4_WL	0						TIM1_BTR, SPI5_MISO, USART1_RTS,				Water and the same and
4 GND 5 ANT			9900000					GND		GND	51	MICRO_USB_HS_DP	45	C1(PA12)	1/0	FT	USART6_RX, CAN1_TX, USB_FS_DP, EVENTOUT	~	3	USB_FS_DP	MICRO_USB_HS_DP
GND			**********					GND		GND		15.50					TIM1_CH4, SPI4_MISO, USARTI CTS,				
GND			20000000					GND GND		GND GND	52	MICKO_N2B_H3_DN	44	D3(PA11)	1/0	FT	USART6_TX, CAN1_RX,		5	USB_FS_DM	MICRO_USB_HS_DN
19 VDD_WI 20 VDD_WI	IFI IFI							VCC		+V3.3 +V3.3	0	$(O)_{\triangle}$					USB_FS_DM, EVENTOUT				
21 GND			0000000000	-		TIM4_CH4, TIM11_CH1,		GND		GND			1/2				TIM1_CH2N, TIM8_CH2N,				
22 MICRO_	SPI_SSN	62	B6(PB9)	1/0	FT	12C1_SDA, SP12_NSS/12S2_WS,		68	SPI2_NSS	SPI_CSO#	E2	MICRO_GPIO_7	35	5) GI(PBI4)	rin		I2CFMPI_SDA, SPI2_MISO, I2S2ext_SD,		16	EVENTOUT	OD DEGET OUT#
						CANI_TX, I2C2_SDA, SDIO_D5, EVENTOUT					25	MICKO_GFIO_F	33,	GI(FBI4)	I/O	FT	USART3_RTS, DESDMI DATIN2.		16	EVENTOOT	CB_RESET_OUT#
23 MICRI_S	SPI_MOSI	11	D6(PC3)	1/0	FT	SPI2_MOSVI2S2_SD, FSMC_AO, EVENTOUT	ADCI_13	62	SPI2_MOSI	SPI_MOSI				0/5	3		TIM12_CH1, FSMC_D0, SDIO_D6, EVENTOUT				
						TIMI_CHIN, I2CFMPI_SMBA,					54	BOOTO GND	60	D4	ŽĬ.	В	-	VPP	NA		BOOT_0
			- Contraction			SPI2_SCK/I2S2_CK,					56	GND			75				GND GND		GND GND
4 MICRO_:	SPI_SCK	34	G2(PB13)	1/0	FT	SPI4_SCK/I2S4_CK, USART3_CTS, CAN2_TX,	(4)	66	SPI2_SCK	SPI_SCK	58	GND GND							GND GND		GND GND
						DFSDM1_CKIN1, EVENTOUT					60	GND GND		(CONTROL OF THE CONTROL OF THE CONTR	_	4	1 ~		GND GND		GND GND
5 MICRO_	SPI_MISO	10	E7(PC2)	1/0	FT	SPI2_MISO, I2S2ext_SD, DFSDMI_CKOUT,	ADCI_I2	64	SPI2_MISO	SPI_MISO	61	GND GND		(**************************************			-/2.		GND GND		GND GND
MICRO_I		7	D7	1/0		FSMC_NWE, EVENTOUT	NRST	71	NRST	RESET#	63	GND GND					4/3		GND GND		GND GND
7 MICRO_		8	D5(PC0)	1/0		EVENTOUT	ADC1_10, WKUF2	73	WKUP2	MODULE_WAKEUP#	65	GND GND		*********				13	GND GND		GND GND
B VBAT			**********				11016	65 GMD		+VBAT	67	GND						1	GND		GND
GND GND						mark and a marky		GND GND		GND GND	69	GND 32K_IN	3	C8(PC14)	1/0	FT	EVENTOUT	OSC32_IN	JND JA	OSC32_IN	GND 32K_IN
						TIMI_CHIN, TIM3_CH2, TIM8_CHIN,					71	GND BT_I2S_DO						~	12 (Cpiton)		GND I2S_DO_BT
31 qSPI_IO1	1	23	E5(PA7)	I/O	FT	SPIL_MOSVIZSI_SD, TIM14_CH1,	ADC1_7	49	ADC1_7	ADC1_MICRO	72	BT_I2S_WS BT_I2S_CLK							15 (Cotion)		I2S_WS_BT I2S_CK_BT
						QUADSPI_BK2_IO1, EVENTOUT					74	GND BT_HOST_WKUP							NA NA	2	GND
	2	24	E4(PC4)	1/0	FT	I2S1_MCK, QUADSP1_BK2_IO2,	ADC1_14	53	ADCI_14	ADC2_MICRO	76	NC NC							48 50		GPIO_5_WL GPIO_6_WL
32 gSP1 IO2				-	1	FSMC_NE4, EVENTOUT					78	WL_GPIO_1							44 NA	7	SPIO_3_WL
32 qSPI_IO2		52	D2/D4113	100	'mm'	I2S3ext_SD, SPI3_MISO, USART3_RX,		20	Heapen no	HOARE DU	80	BT_PCM_CLK BT_PCM_OUT							NA	7	(0)
			B3(PC11)	1/0	FT	QUADSPI_BK2_NCS, FSMC_D2, SDIO_D3,	(4)	32	USART3_RX	USART_RX	82	BT_PCM_SYNC BT_PCM_IN							NA NA		7//
	28	32				EVENTOUT	1				83	GND BT_RTS							GND 34		RTS_BT
32 qSPI_IO2 33 qSPI_NC	28	32																			
	23	32									TP2 TP3	BT_CTS BT_RXD							36 32		CTS_BT RXD_BT
	2	JZ									TP2 TP3	BT_CTS BT_RXD BT_TXD		*********					36 32 22		CTS_BT
	28	32									TP2 TP3	BT_CTS BT_RXD							36 32 22		CTS_BT RXD_BT
		32									TP2 TP3	BT_CTS BT_RXD							36 32 22		CTS_BT RXD_BT
	23	32				4					TP2 TP3	BT_CTS BT_RXD							36 32 22 22		CTS_BT RXD_BT
	23	32				4					TP2 TP3	BT_CTS BT_RXD BT_TXD		***************************************					36 32 22 22		CTS_BT RXD_BT

