

BTB Connector Pin Map

KCN1(1~50)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
UFS	GND		2	1		GND	MMC_Ch2
	UFSSD_RXDN_0		4	3	GPJ0[5]	TFLASH_D2	
	UFSSD_RXDP_0		6	5	GPJ0[6]	TFLASH_D3	
	GND		8	7	GPJ0[1]	TFLASH_CMD	
	UFSSD_TXDN_0		10	9		GND	
	UFSSD_TXDP_0		12	11	GPJ0[0]	FLASH_CLK	
	XUFSSDREFCLKOUT		14	13		GND	
XEDP	GND		16	15	GPJ0[3]	TFLASH_D0	MMC_Ch2
	XEDPLN3_TXN		18	17	GPJ0[4]	TFLASH_D1	
	XEDPLN3_TXP		20	19	GPJ0[2]	TFLASH_CDN	
	GND		22	21	GPE2[4]	XSPICLK_1	GPIO
	XEDPLN2_TXN		24	23	GE2[5]	XSPICSN_1	
	XEDPLN2_TXP		26	25	GPE2[6]	XSPIMISO_1	
	GND		28	27	GPE2[7]	XSPIMOSI_1	
	XEDPLN1_TXN		30	29	GPE3[0]	XSPICLK_2	
	XEDPLN1_TXP		32	31	GPE3[1]	XSPICSN_2	
	GND		34	33	GPE3[2], GPE3[3]	AP_WAKE_WLAN	
	XEDPLN0_TXN		36	35	GPE3[3]	XSPIMOSI_2	
	XEDPLN0_TXP		38	37	GPK0[3]	XCI3_MCLK	
	GND		40	39	GPJ1[2]	PCIeW0_PRESET	
	XEDPAUXN		42	41	GPJ1[6]	PCIeW1_PRESET	
	XEDPAUXP		44	43	GPE0[6]	XURXD_3	
GND		46	45	GPE0[7]	XUTXD_3		
HDMI	XHDMI_TXCN		48	47	GPE5[4]	XHSI2C8SDA	I2C
	XHDMI_TXCP		50	49	GPE5[5]	XHSI2C8SCL	

KCN1(51~100)

기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
HDMI	GND		52	51		GND	
	XHDMI_TX0N		54	53	GPD2[0]	XHSI2C10SDA	I2C
	XHDMI_TX0P		56	55	GPD2[1]	XHSI2C10SCL	
	GND		58	57	GPE0[4]	AP_UART2_RXD	
	XHDMI_TX1N		60	59	GPE0[5]	AP_UART2_TXD	
	XHDMI_TX1P		62	61	GPE5[6]	XHSI2C12SDA	I2C
	GND		64	63	GPE5[7]	XHSI2C12SCL	
	XHDMI_TX2N		66	65	GPE6[0]	XHSI2C13SDA	
	XHDMI_TX2P		68	67	GPE6[1]	XHSI2C13SCL	
	GND		70	69	GPE6[3]	XHSI2C14SCL	
MIPI CSI Ch0	MAINCAM_MIPI_D0_N		72	71	GPE6[2]	XHSI2C14SDA	
	MAINCAM_MIPI_D0_P		74	73	GPE0[0]	XURXD_1	UART
	GND		76	75	GPE0[1]	XUTXD_1	
	MAINCAM_MIPI_D1_N		78	77	GPE0[2]	XUCTSN_1	
	MAINCAM_MIPI_D1_P		80	79	GPE0[3]	XURTSN_1	
	GND		82	81	GPE5[3]	XHSI2C3SCL	I2C
	MAINCAM_MIPI_D2_N		84	83	GPE5[2]	XHSI2C3SDA	
	MAINCAM_MIPI_D2_P		86	85	GPE5[1]	XHSI2C2SCL	
	GND		88	87	GPE5[0]	XHSI2C2SDA	
	MAINCAM_MIPI_D3_N		90	89	GPC3[6]	XISP1SPIMISO	SPI
	MAINCAM_MIPI_D3_P		92	91	GPC3[7]	XISP1SPIMOSI	
	GND		94	93	GPC3[5]	XISP1SPICSN	
	MAINCAM_MIPI_CLK_N		96	95	GPC3[4]	XISP1SPICLK	
	MAINCAM_MIPI_CLK_P		98	97	GPK0[0]	XCI0_MCLK	
	GND		100	99		GND	

KCN2(1~50)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
GPIO	GND		2	1		GND	PCIe CH0
	LCD0_BIAS_NEN	GPE4[6]	4	3		PCIeW0_RXDN_0	
	SENSOR_STAT	GPE4[7]	6	5		PCIeW0_RXDN_0	
	HDMI_DCDC_EN	GPE4[0]	8	7		GND	
	WL_GPIO6_TRST_L	GPE4[1]	10	9		PCIeW0_CLKOUTN	
	TOUCH_INT2	GPE4[4]	12	11		PCIeW0_CLKOUTP	
SPI	CODEC_SPI0_CLK	GPE2[0]	14	13		GND	
	CODEC_SPI0_CSN	GPE2[1]	16	15		PCIeW0_TXDN_0	
	CODEC_SPI0_MISO	GPE2[2]	18	17		PCIeW0_TXDP_0	
	CODEC_SPI0_MOSI	GPE2[3]	20	19		GND	
	GND		22	21		PCIeW1_RXDN_0	
	FPC_SPI3_CLK	GPF2[0]	24	23		PCIeW1_RXDP_0	
	FPC_SPI3_CSN	GPF2[1]	26	25		GND	
	FPC_SPI3_MISO	GPF2[2]	28	27		PCIeW1_CLKOUTN	
	FPC_SPI3_MOSI	GPF2[3]	30	29		PCIeW1_CLKOUTP	
	ESE_SPI4_CLK	GPF3[0]	32	31		GND	
	ESE_SPI4_CSN	GPF3[1]	34	33		PCIeW1_TXDN_0	
	ESE_SPI4_MISO	GPF3[2]	36	35		PCIeW1_TXDP_0	
	ESE_SPI4_MOSI	GPF3[3]	38	37		GND	
ADC	GND		40	39		XUSB30DM0	USB 3.0
	XADC0AIN_0		42	41		XUSB30DP0	
	XADC0AIN_1		44	43		GND	
XADC0AIN_2		46	45		XUSB30RX0M		
UART	XUART_RXD_HUB	GPE1[0]	48	47		XUSB30RX0P	
	XUART_TXD_HUB	GPE1[1]	50	49		GND	

KCN2(51~100)

기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
UART	XUART_CTSn_HUB	GPE1[2]	52	51		XUSB30TX0M	USB 3.0
	XUART_RTSn_HUB	GPE1[3]	54	53		XUSB30TX0P	
I2C	NFC_SDA_1.8V	GPF0[0]	56	55		GND	SYS
	NFC_SCL_1.8V	GPF0[1]	58	57		XCLKOUT0	
	HDMI_SDA_1.8V		60	59		XCLKOUT1	
	HDMI_SCL_1.8V		62	61		GPS_CLK_26M	
USB 3.0	XUHOSTVBUSCTRL	GPD2[2]	64	63		GND	USB 2.0
	USB30_CON_SEL	GPD2[3]	66	65		XUHOSTDM	
GPIO	GND		68	67		XUHOSTDP	HOST
	USB30_CON_SEL	GPD2[2]	70	69		GND	
SYS	AP_PWRRGTON		72	71		XUHOSTVBUS0	USB 3.0
	AP_NRESET		74	73	GPIO[0]	XUHOSTOVERCU	
	AP_WRESET		76	75	GPIO[1]	XHOSTVBUSCTRL	
	XOM1		78	77	GPIO[2]	XUSB30OVERCUR	
	XOM2		80	79		XUSB30ID0	
	XOM3		82	81		XUSB30VBUS0	
	XOM4		84	83	GPIO[3]	XUSB30VBUSCTR	
XEINT	CHG_INT	GPA0[0]	86	85		GND	I2C
	EAR_DET	GPA0[1]	88	87	GPF1[0]	TOUCH0_SDA_1.8	
	TOUCH_INT0	GPA0[3]	90	89	GPF1[1]	TOUCH0_SCL_1.8	
	TOUCH_INT1	GPA0[4]	92	91	GPE1[4]	IRON	GPIO
	CODEC_INT	GPA0[5]	94	93	GPE1[5]	HUB_BOOT1	
	SENSOR_INT0	GPA0[6]	96	95	GPE1[6]	WLAN_GPIO	
	WLAN_HOST_WAKE	GPA0[7]	98	97	GPE1[7]	CODEC_MUTE	
	GND		100	99		GND	

KCN3(1~50)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
MIPI DSI CH0	GND		2	1		GND	ISP /GPIO
	DISP_MIPI0_D3_N		4	3	GPC0[1]	XCI1_MCLK	
	DISP_MIPI0_D3_P		6	5	GPC0[2]	XCI2_MCLK	
	GND		8	7	GPC3[3]	XISP0SPIMOSI	
	DISP_MIPI0_D2_N		10	9	GPC3[2]	XISP0SPIMISO	
	DISP_MIPI0_D2_P		12	11	GPC3[1]	XISP0SPICSN	
	GND		14	13	GPC3[0]	XISP0SPICLK	
	DISP_MIPI0_CLK_N		16	15	GPC2[5]	XISPI2C2SCL	
	DISP_MIPI0_CLK_P		18	17	GPC2[4]	XISPI2C2SDA	
	GND		20	19	GPC2[3]	XISPI2C1SCL	
	DISP_MIPI0_D1_N		22	21	GPC2[2]	XISPI2C1SDA	
	DISP_MIPI0_D1_P		24	23	GPC2[1]	XISPI2C0SCL	
	GND		26	25	GPC2[0]	XISPI2C0SDA	
	DISP_MIPI0_D0_N		28	27	GPC1[4]	ISP_UART_RXD	
DISP_MIPI0_D0_P		30	29	GPC1[2]	SP_UART_TXD		
MIPI DSI CH1	GND		32	31	GPC1[0]	XISPI2C3SCL	ISP /GPIO
	DISP_MIPI1_D0_N		34	33	GPC0[4]	XISPI2C3SDA	
	DISP_MIPI1_D0_P		36	35	GPC0[3]	CAM_FLASH_EN	
	GND		38	37	GPC0[2]	VTCAM_RESET	
	DISP_MIPI1_D1_N		40	39	GPC0[1]	MAINCAM_PWDN	
	DISP_MIPI1_D1_P		42	41	GPC0[0]	MAINCAM_RESET	
	GND		44	43	GPC1[1]	CAM_FLASH_TORCH	
	DISP_MIPI1_D2_N		46	45	GPE4[3]	XSPIMOSI_6	
	DISP_MIPI1_D2_P		48	47	GPC1[3]	XISPGP8	
	GND		50	49	GPD3[0]	CC_SDA_1.8V	

KCN3(51~100)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
MIPI DSI Ch1	DISP_MIPI1_D3_N		52	51	GPD3[1]	CC_SCL_1.8V	I2C
	DISP_MIPI1_D3_P		54	53	GPD3[2]	HUB_SDA_1.8V	
	GND		56	55	GPD3[3]	HUB_SCL_1.8V	
	DISP_MIPI1_CLK_N		58	57	GPD1[0]	FUEL_SDA_1.8V	
	DISP_MIPI1_CLK_P		60	59	GPD1[1]	FUEL_SCL_1.8V	
MIPI CSI Ch1	GND		62	61	GPD1[2]	CODEC_SDA_1.8V	
	VTCAM_D0_N		64	63	GPD1[3]	CODEC_SCL_1.8V	
	VTCAM_D0_P		66	65	GPB0[1]	LCD_TE0	
	GND		68	67	GPB0[2]	LCD_TE1	
	VTCAM_D1_N		70	69	GPB0[0]	LCD_TE2	
	VTCAM_D1_P		72	71	GPE5[4]	CHG_SDA_1.8V	
	GND		74	73	GPE5[5]	CHG_SCL_1.8V	
	VTCAM_D2_N		76	75	GPD1[4]	HDMI_SDA_1.8V	
	VTCAM_D2_P		78	77	GPD1[5]	HDMI_SCL_1.8V	
	VTCAM_D3_N		80	79	GPE4[2]	XSPIMISO6_GPE4	
	VTCAM_D3_P		82	81	GPE4[5]	XSPICSN_7/GPE4	
	GND		84	83		GND	
	MIPI CSI Ch0	VTCAM_CLK_N		86	85		CAM_MIPI_D0_N
VTCAM_CLK_P			88	87		CAM_MIPI_D0_P	
CAM_MIPI_CLK_N			90	89		CAM_MIPI_D1_N	
VINMAIN POWER (2.7-5.0)	V_SYS_4.2V		92	91		CAM_MIPI_D1_P	VINMAIN POWER (2.7-5.0)
	V_SYS_4.2V		94	93			
	V_SYS_4.2V		96	95		V_SYS_4.2V	
	V_SYS_4.2V		98	97		V_SYS_4.2V	
	V_SYS_4.2V		100	99		V_SYS_4.2V	

KCN4(1~50)

기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
XEINT	GND		2	1		GND	GPIO
	CC_IRQB	GPA1[1]	4	3	GPF0[2]	NFC_CLK_REQ	
	XEINT_10/UFSSD_DETECT	GPA1[2]	6	5	GPF1[2]	WIFI1_REG_ON	
	GPS_INT	GPA1[3]	8	7	GPF3[4]	NFC_PD	
	AP_INT_HUB	GPA1[4]	10	9	GPG0[2]	EMMC_NRESET	
	HUB_INT_AP	GPA1[5]	12	11	GPJ1[3]	WIFI0_REG_ON	
	FPC_INT	GPA1[6]	14	13	GPJ1[7]	BT_DEV_WAKE	
	XEINT_15/NFC_INT	GPA1[7]	16	15	GPE6[4]	AP_WAKE_WLAN1	
	VOL_UP	GPA2[0]	18	17	GPE6[5]	CODEC_RESET	
	VOL_DOWN	GPA2[1]	20	19	GPE6[6]	CODEC_LDOENA	
	BT_HOST_WAKE	GPA2[2]	22	21	GPE6[7]	HUB_RST_N	
	HOME_KEY_OK_SW	GPA2[5]	24	23	GPE7[0]	BT_REG_ON	
	WLAN_HOST_WAKE1	GPA2[6]	26	25	GPE7[2]	XGPIO_16	
	XEINT_24/HDMI_HPD	GPA3[0]	28	27	GPE7[3]	FPC_RESET	
	XEINT_25/HDMI_CEC	GPA3[1]	30	29		XCPUAXI3SELACE	
	PCIEW1_WKREQIN	GPA3[2]	32	31	GPA2[4]	PCIEW1_CLKREQ	
	PCIEW0_WKREQIN	GPA3[3]	34	33	GPA2[3]	PCIEW0_CLKREQ	
	FUEL_INT	GPA3[4]	36	35	GPD0[4]	LCD0_BL_PWM	
	EINT_AUD	GPA3[5]	38	37	GPD0[5]	LCD1_BL_PWM	
	MCU_INT	GPA3[6]	40	39	GPD0[6]	VTCAM_PWDN	
HALL_INT	GPA3[7]	42	41	GPC0[0]	CAM_RESET		
WCINOK	GPE3[5]	44	43	GPD0[0]	XUART_RXD_GPS	UART	
CHG_OTG	GPE3[6]	46	45	GPD0[1]	XUART_TXD_GPS		
XBOOTLDO1	GPG0[1]	48	47	GPD0[2]	XUART_CTSn_GPS		
SYS	USB_SWITCH	GPE3[7]	50	49	GPD0[2]	XUART_RTSn_GPS	

KCN4(51~100)

기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
SYS			52	51		GND	I2C
	GPS_RST_N	GPB1[0]	54	53	GPH0[0]	CHG_SCL_1.8V	
	GPS_EN	GPB1[1]	56	55	GPH0[1]	CODEC_SDA_1.8V	
	GPS_32K		58	57	GPH0[2]	CODEC_SCL_1.8V	
	BT_32K		60	59	GPH0[3]	PMIC_SDA_1.8V	
	POWER_KEY		62	61	GPH0[4]	PMIC_SCL_1.8V	
	AP_JIGONB		64	63	GPH0[5]	MOTOR_SDA_1.8	
			66	65	GPH0[6]	MOTOR_SCL_1.8V	
BUCK POWER			68	67			LDO POWER
	PVDD_BUCK12_M		70	69		PVDD_LDO29	
	PVDD_BUCK12_M		72	71		PVDD_LDO29	
RTC PWR	PM_RTC_VDD		74	73		PVDD_LDO30	
LDO POWER	VDD_LDO3_1V8_AP		76	75		PVDD_LDO30	
	VDD_LDO3_1V8_AP		78	77		PVDD_LDO31	
	PVDD_LDO17		80	79		PVDD_LDO31	
	PVDD_LDO20		82	81		PVDD_LDO32	
	PVDD_LDO20		84	83		PVDD_LDO33	
	PVDD_LDO21		86	85		PVDD_LDO33	
	PVDD_LDO22		88	87		PVDD_LDO34	
	PVDD_LDO22		90	89		PVDD_LDO34	
	PVDD_LDO23		92	91		PVDD_LDO34	
	PVDD_LDO24		94	93		PVDD_LDO34	
	PVDD_LDO28		96	95		PVDD_LDO36	
	PVDD_LDO28		98	97		PVDD_LDO37	
	GND		100	99		GND	



KCN5(1~50)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
Audio Codec pin	GND		2	1		GND	Audio Codec pin
	MUIC_AL		4	3		EAR_MIC_P	
	MUIC_AR		6	5		GND	
	GND		8	7		HP_DET	
	HPOUT3L		10	9		MIC_DET	
	HPOUT3R		12	11		GND	
	GND		14	13		HPOUTL	
	IN1LP		16	15		HPOUTR	
	IN1RP		18	17		HPOUTFB	
	GND		20	19		GND	
	DMIC_DATA1		22	21		SPKOUTLN	
	DMIC_CLK1		24	23		SPKOUTLP	
	GND		26	25		GND	
	DMIC_DATA2		28	27		SPKOUTRN	
	DMIC_CLK2		30	29		SPKOUTRP	
	GND		32	31		GND	
	FM_OUT1_R		34	33		MODEM_PCM_SCLK	
	FM_OUT2_R		36	35		MODEM_PCM_FSYNC	
			38	37		MODEM_PCM_SOUT	
	MAIN-MICBIAS		40	39		MODEM_PCM_SIN	
		42	41		GND		
SUB-MICBIAS		44	43		BT_PCM_CLK		
		46	45		BT_PCM_SYNC		
EAR-BIASBIAS		48	47		BT_PCM_DO		
XJTRSTN		50	49		BT_PCM_DI		

KCN5(51~60)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
SYS	XJTMS		52	51			CP UART
	XJTCK		54	53			
	XJTDI		56	55		CP_UART0_RXD	
	XJTDO		58	57		CP_UART0_TXD	
	GND		60	59		GND	