

4. Board Connector Pin Map

KCN1(1~50)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
MMC Ch1	GND		2	1	GND		MMC Ch1
	XMMC1INTN	GPD1_1	4	3	GPC1_0	XMMC1CLK	
	XMMC1WP	GPD1_3	6	5	GPC1_1	XMMC1CMD	
	XMMC1BEPW	GPB4_6	8	7	GND		
	XMMC1CDN	GPC1_2	10	9	GPC1_3	XMMC1DATA_0	
	GND		12	11	GPC1_4	XMMC1DATA_1	
	XMMC1DATA_4	GPD1_4	14	13	GPC1_5	XMMC1DATA_2	
	XMMC1DATA_5	GPD1_5	16	15	GPC1_6	XMMC1DATA_3	
	XMMC1DATA_6	GPD1_6	18	17	GND		
	XMMC1DATA_7	GPD1_7	20	19	GPC1_7	XMMC1RDQS	
EBI	GND		22	21	GND		USB 2.0
	XSRAMFCLE	GPY2_0	24	23	GTC6_6	XuhostOVERCUR	
	XSRAMFAL	GPY2_1	26	25	GTC6_5	XuhostPWREN	USB 3.0
	XSRAMFRNB_0	PY2_2	28	27		UDRD3_1_OVERCUR_U2	
	XSRAMFRNB_1	GPY2_3	30	29	ETC5_6	UDRD3_1_VBUSCTRL_U2	USB HOST
	XSRAMFRNB_2	GPY2_4	32	31	ETC5_7	UDRD3_1_VBUSCTRL_U3	
	XSRAMFRNB_3	GPY2_5	34	33		UDRD3_0_OVERCUR_U2	
	GND		36	35	ETC5_2	UDRD3_0_VBUSCTRL_U2	
UART	UART0_RXD	GPA0_0	38	37	ETC5_3	UDRD3_0_VBUSCTRL_U3	USB HOST
	UART0_TXD	GPA0_1	40	39		USB_VBUS	
	UART0_RTSn	GPA0_3	42	41		XuhostDM	
	UART0_CTSn	GPA0_2	44	43		XuhostDP	I2C
	XURXD_1	GPA0_4	46	45	GND		
	XUTXD_1	GPA0_5	48	47	GPB3_1	XI2C0SCL	
	XURTSN_1	GPA0_7	50	49	GPB3_0	XI2C0SDA	

KCN1(51~60)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
UART	XUCTSN_1	GPA0_6	52	51	GPB3_3	XI2C1SCL	I2C
	XURXD_2	GPA1_0	54	53	GPB3_2	XI2C1SDA	
	XUTXD_2	GPA1_1	56	55	GPB3_5	XI2C8SCL	
	GND		58	57	GPB3_4	XI2C8SDA	
	GND		60	59	GND		

KCN2(1~50)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
MMC_Ch2	GND		2	1	GND		EBI
	XMMC2BIUVR	GPC4_1	4	3	GPY1_0	XSRAMBEN_0	
	XMMC2CDN	GPC2_2	6	5	GPY1_1	XSRAMBEN_1	
	XMMC2CLK	GPC2_0	8	7	GPY1_2	XSRAMWAITN	
	XMMC2CMD	GPC2_1	10	9	GPY1_3	SRAMDATA_RDN	
	XMMC2DATA_0	GPC2_3	12	11	GPY0_0	XSRAMCSN_0	
	XMMC2DATA_1	GPC2_4	14	13	GPY0_0	XSRAMCSN_2	
	XMMC2DATA_2	GPC2_5	16	15	GPY0_1	XSRAMCSN_3	
	XMMC2DATA_3	GPC2_6	18	17	GPY0_2	XSRAMCSN_4	
	MMC2WP	GPC4_0	20	19	GPY0_4	XSRAMOEN	
	GND		22	21	GPY0_5	XSRAMWEN	
MPI DSI Ch0	XMIPI0MDN3		24	23	GPY3_0	XSRAMADDR_0	
	XMIPI0MDP3		26	25	GPY3_1	XSRAMADDR_1	
	GND		28	27	GPY3_2	XSRAMADDR_2	
	XMIPI0MDN2		30	29	GPY3_3	XSRAMADDR_3	
	XMIPI0MDP2		32	31	GPY3_4	XSRAMADDR_4	
	GND		34	33	GPY3_5	XSRAMADDR_5	
	XMIPI0MDNCLK		36	35	GPY3_6	XSRAMADDR_6	
	XMIPI0MDPCLK		38	37	GPY3_7	XSRAMADDR_7	
	GND		40	39	GND		
	XMIPI0MDN1		42	41	GPY4_0	XSRAMADDR_8	
	XMIPI0MDP1		44	43	GPY4_1	XSRAMADDR_9	
	GND		46	45	GPY4_2	XSRAMADDR_10	
	XMIPI0MDN0		48	47	GPY4_3	XSRAMADDR_11	
	XMIPI0MDP0		50	49	GPY4_4	XSRAMADDR_12	

KCN2(51~100)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
MIPI CSI Ch0	GND		52	51	GPY4_5	XSRAMADDR_13	EBI
	MAINCAM_MIPI_D3_N		54	53	GPY4_6	XSRAMADDR_14	
	MAINCAM_MIPI_D3_P		56	55	GPY4_7	XSRAMADDR_15	
	GND		58	57	GND		
	MAINCAM_MIPI_D2_N		60	59	GPY5_0	XSRAMDATA_0	
	MAINCAM_MIPI_D2_P		62	61	GPY5_1	XSRAMDATA_1	
	GND		64	63	GPY5_2	XSRAMDATA_2	
	MAINCAM_MIPI_CLK_N		66	65	GPY5_3	XSRAMDATA_3	
	MAINCAM_MIPI_CLK_P		68	67	GPY5_4	XSRAMDATA_4	
	GND		70	69	GPY5_5	XSRAMDATA_5	
	MAINCAM_MIPI_D1_N		72	71	GPY5_6	XSRAMDATA_6	
	MAINCAM_MIPI_D1_P		74	73	GPY5_7	XSRAMDATA_7	
	GND		76	75	GND		
	MAINCAM_MIPI_D0_N		78	77	GPY6_0	XSRAMDATA_8	
	MAINCAM_MIPI_D0_P		80	79	GPY6_1	XSRAMDATA_9	
MIPI DSI CH1	GND		82	81	GPY6_2	XSRAMDATA_10	GPIO
	DISP_MIPI_D3_N		84	83	GPY6_3	XSRAMDATA_11	
	DISP_MIPI_D3_P		86	85	GPY6_4	XSRAMDATA_12	
	GND		88	87	GPY6_5	XSRAMDATA_13	
	DISP_MIPI_D2_N		90	89	GPY6_6	XSRAMDATA_14	
	DISP_MIPI_D2_P		92	91	GPY6_7	XSRAMDATA_15	
	GND		94	93	GPG2_0	XCI1HSYNC	
	DISP_MIPI_CLK_N		96	95	GPG1_7	XCI1VSYNC	
	DISP_MIPI_CLK_P		98	97	GPG2_1	XCI1MCLK	
GND		100	99	GND			

KCN3(1~50)								
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능	
MIPI DSI Ch1	GND		2	1	GND			
	DISP_MIPI_D1_N		4	3	GND			
	DISP_MIPI_D1_P		6	5	GPG0_0	XCI1PCLK		
	GND		8	7	GPG1_6	XCI1RGB_13		
	DISP_MIPI_D0_N		10	9	GPG1_4	XCI1RGB_11		
	DISP_MIPI_D0_P		12	11	GPG1_3	XCI1RGB_10		
	GND		14	13	GPG1_2	XCI1RGB_9		
MIPI CSI Ch1	VTCAM_D2_N		16	15	GPG1_1	XCI1RGB_8		
	VTCAM_D2_P		18	17	GPG1_0	XCI1RGB_7		
	GND		20	19	GPG0_7	XCI1RGB_6		
	VTCAM_D3_N		22	21	GPG0_6	XCI1RGB_5		
	VTCAM_D3_P		24	23	GPG0_5	XCI1RGB_4		
	GND		26	25	GPG0_4	XCI1RGB_3		
	VTCAM_CLK_N		28	27	GPG0_3	XCI1RGB_2		
	VTCAM_CLK_P		30	29	GPG0_2	XCI1RGB_1		GPIO
	GND		32	31	GPG0_1	XCI1RGB_0		
	VTCAM_D0_N		34	33	GPF1_7	XISPSPI1MOSI		ISP GPIO
	VTCAM_D0_P		36	35	GPF1_6	XISPSPI1MISO		
	GND		38	37	GPF1_5	XISPSPI1CSN		
	VTCAM_D1_N		40	39	GPF1_4	XISPSPI1CLK		
VTCAM_D1_P		42	41	GPF1_3	XISPSPI0MOSI			
HDMI	GND		44	43	GPF1_2	XISPSPI0MISO		
	HD_TXC		46	45	GPF1_1	XISPSPI0CSN		
	HD_TXC+		48	47	GPF1_0	XISPSPI0CLK		
	GND		50	49		XADC1AIN_0		ADC

KCN3(51~100)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
HDMI	HD_TX0-		52	51		XADC1AIN_1	ADC
	HD_TX0+		54	53		XADC1AIN_2	
	GND		56	55		XADC1AIN_3	
	HD_TX1-		58	57	GND		ISP ,GPIO
	HD_TX1+		60	59	GPF0_4	XISPI2C2SDA	
	GND		62	61	GPF0_5	XISPI2C2SCL	
	HD_TX2-		64	63	GPF0_2	XISPI2C1SDA	
	HD_TX2+		66	65	GPF0_3	XISPI2C1SCL	
	GND		68	67	GPF0_0	XISPI2C0SDA	
GND		70	69	GPF0_1	XISPI2C0SCL		
XDPAUXN		72	71	GPE1_1	XISPGP9		
XDPAUXP		74	73	GPE1_0	XISPGP8		
GND		76	75	GPE0_7	XISPGP7		
eDP	XDPTX3N		78	77	GPE0_6	XISPGP6	
	XDPTX3P		80	79	GPE0_5	XISPGP5	
	GND		82	81	GPE0_4	ISPGP4	
	XDPTX2N		84	83	GPE0_3	XISPGP3	
	XDPTX2P		86	85	GPE0_2	XISPGP2	
	GND		88	87	GPE0_1	XISPGP1	
	XDPTX1N		90	89	GPE0_0	XISPGP0	
	XDPTX1P		92	91	GPJ4_0	XV1VSYNC_LDI	
	GND		94	93	GPJ4_1	XV1FRM	
	XDPTX0N		96	95	GPJ4_2	XGPIO16	
	XDPTX0P		98	97	GPJ4_3	XGPIO17	
	GND		100	99	GND		

KCN4(1~50)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
I2C	GND		2	1	GND		USB 3.0 Ch1
	XI2C9SCL_HS	GPB3_7	4	3	GND		
	XI2C9SDA_HS	GPB3_6	6	5		XUSB3RX0P_1	
	I2C10SCL_HS	GPB4_1	8	7		XUSB3RX0M_1	
	XI2C10SDA_HS	GPB4_0	10	9	GND		
UART	XURTSN_2	GPA1_3	12	11		XUSB3TX0M_1	
	XUCTSN_2	GPA1_2	14	13		XUSB3TX0P_1	
	XURXD_3	/GPA1_4	16	15	GND		
	XUTXD_3	GPA1_5	18	17		XUSB3ID0_1	
PWM	XPWMTOUT_0	GPB2_0	20	19	GND		
	XPWMTOUT_1	GPB2_1	22	21		XUSB3DP0_1	
	XPWMTOUT_2	GPB2_2	24	23		XUSB3DM0_1	
	XPWMTOUT_3	GPB2_3	26	25	GND		
	GND		28	27		XUSB3VBUS0_1	
	XI2S2CDCLK	GPB1_1	30	29	GND		
I2S 2	XI2S2LRCK	GPB1_2	32	31		XUSB3RX0M_0	USB 3.0 Ch0
	XI2S2SCLK	GPB1_0	34	33		XUSB3RX0P_0	
	XI2S2SDI	GPB1_3	36	35	GND		
	XI2S2SDO	GPB1_4	38	37		XUSB3TX0M_0	
SPI 1	XSPICLK_0	GPA2_0	40	39		XUSB3TX0P_0	
	XSPICSN_0	GPA2_1	42	41	GND		
	XSPIMISO_0	GPA2_2	44	43		XUSB3ID0_0	
	XSPIMOSI_0	GPA2_3	46	45		XUSB3DP0_0	
I2S 1	GND		48	47		XUSB3DM0_0	
	XI2S1CDCLK	GPB0_1	50	49	GND		

KCN4(51~100)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
I2S 0	XI2S1LRCK	GPB0_2	52	51		XUSB3VBUS0_0	HSIC1
	XI2S1SCLK	GPB0_0	54	53	GND		
	XI2S1SDI	GPB0_3	56	55		XHSICDATA1	
	XI2S1SDO	GPB0_4	58	57		XHSICSTROBE1	
	GND			60	59	GND	
SPI 1	XSPICLK_1	GPA2_4	62	61	GPZ_1	XAUDI2S0CDCLK	I2S
	XSPICSN_1	GPA2_5	64	63	GPZ_2	XAUDI2S0LRCK	
	XSPIMISO_1	GPA2_6	66	65	GPZ_0	XAUDI2S0SCLK	
	XSPIMOSI_1	GPA2_7	68	67	GPZ_3	XAUDI2S0SDI	
GPIO	XGPIO0	GPH0_0	70	69	GPZ_4	XAUDI2S0SDO_0	ADC 0
	XGPIO1	GPH0_1	72	71	GPZ_5	XAUDI2S0SDO_1	
	XGPIO2	GPH0_2	74	73	GPZ_6	XAUDI2S0SDO_2	
	XGPIO3	GPH0_3	76	75	GND		
	XGPIO4	GPH0_4	78	77		XADC0AIN_0	
	XGPIO5	GPH0_5	80	79		XADC0AIN_1	
	XGPIO6	GPH0_6	82	81		XADC0AIN_2	
	XGPIO7	GPH0_7	84	83		XADC0AIN_3	
	XGPIO8	GPY7_0	86	85		XADC0AIN_4	
	XGPIO9	GPY7_1	88	87		XADC0AIN_5	
	XGPIO10	GPY7_2	90	89		XADC0AIN_6	
	XGPIO11	GPY7_3	92	91		XADC0AIN_7	
	XGPIO12	GPY7_4	94	93		XADC0AIN_8	
	XGPIO13	GPY7_5	96	95		XADC0AIN_9	
	XGPIO14	GPY7_6	98	97	GPY7_7	XGPIO15	
	GND			100	99	GND	

KCN5(1~50)							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
	GND		2	1	GND		XEINT
			4	3	GPX0_0	XEINT_0	
SYS	XOM2		6	5	GPX0_1	XEINT_1	
	XOM3		8	7	GPX0_2	XEINT_2	
	XOM4		10	9	GPX0_3	XEINT_3	
	XOM5		12	11	GPX0_4	XEINT_4	
SYS	PMIC_MRSTB		14	13	GPX0_5	XEINT_5	
	XOMCCI		16	15	GPX0_6	XEINT_6	
	XCLKOUT		18	17	GPX0_7	XEINT_7	
	XnRESET		20	19	GPX1_0	XEINT_8	
	XnWRESET		22	21	GPX1_1	XEINT_9	
RTC PWR	PVDD_LDO8		24	23	GPX1_2	XEINT_10	
	VDD_RTC_PM		26	25	GND		
	PVDD_LDO2		28	27	GPX1_4	XEINT_12	
	PVDD_LDO2		30	29	GPX1_5	XEINT_13	
	PVDD_LDO32		32	31	GPX1_6	XEINT_14	
	PVDD_LDO32		34	33	GPX1_7	XEINT_15	
	PVDD_LDO29		36	35	GPX2_0	XEINT_16	
	PVDD_LDO29		38	37	GPX2_1	XEINT_17	
	PVDD_LDO31		40	39	GPX2_2	XEINT_18	
	PVDD_LDO33		42	41	GPX2_3	GPX2_3	
PMIC LDO	PVDD_LDO18		44	43	GPX2_4	XEINT_20	
	PVDD_LDO18		46	45	GPX2_5	XEINT_21	
	PVDD_LDO30		48	47	GPX2_6	XEINT_22	
	PVDD_LDO30		50	49	GPX2_7	XEINT_23	

