

MV540T CPU 모듈 Pin 세부사항

BCN1								
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능	
ISP GPIO & PWM	XispGP9	RXD_UART_ISP	1	2			SPI 1	
	XispGP8	nCTS_UART_ISP	3	4		XispSPI1MISO		
	XispGP7	TXD_UART_ISP	5	6		XispSPI1MOSI		
	XispGP6	nRTS_UART_ISP	7	8		XispSPI1CSn		
				9	10			XispSPI1CLK
				11	12			
	XispGP0	MPWM1_OUT_ISP	13	14	GPG00	Xci1PCLK		RGB CAMERA INPUT
	XispGP1	MPWM2_OUT_ISP	15	16	GPG01	Xci1RGB0		
	XispGP2	MPWM3_OUT_ISP	17	18	GPG02	Xci1RGB1		
	XispGP3	MPWM4_OUT_ISP	19	20	GPG03	Xci1RGB2		
XispGP4	MPWM5_OUT_ISP	21	22	GPG04	Xci1RGB3			
XispGP5	MPWM6_OUT_ISP	23	24	GPG05	Xci1RGB4			
			25	26	GPG06	Xci1RGB5		
SPI 0 & I2C	Xispl2C0SDA	CAM_GPIO10	27	28	GPG07	Xci1RGB6		
	Xispl2C0SCL	CAM_GPIO11	29	30	GPG10	Xci1RGB7		
	Xispl2C1SDA	CAM_GPIO12	31	32	GPG11	XciRGB8		
	Xispl2C1SCL	CAM_GPIO13	33	34	GPG12	XciRGB9		
	Xispl2C2SDA		35	36	GPG13	XciRGB10		
	Xispl2C2SCL		37	38	GPG14	XciRGB11		
				39	40	GPG15	XciRGB12	
	XspiMOSI0	i2cSCL5	41	42	GPG16	XciRGB13		
	XspiMISO0	i2cSDA5	43	44	GPG17	XciVSYNC		
	XspiCSn0	I2CSCL4	45	46	GPG20	XciHSYNC		
XspiCLK0	I2CSDA4	47	48	GPG21	Xci1MCLK			
			49	50				
			51	52	CAM_GPIO14	XispSPI0CLK		
			53	54	CAM_GPIO15	XispSPI0CSn		
			55	56	CAM_GPIO16	XispSPI0MISO		
			57	58	CAM_GPIO17	XispSPI0MOSI		
GPIO_GPH only	Xci0PCLK	GPH00	59	60	GPH12	Xci0YDATA2	GPIO_GPH only	
	Xci0VSYNC	GPH01	61	62	GPH13	Xci0YDATA3		
	Xci0HREF	GPH02	63	64	GPH14	Xci0YDATA4		
	Xci0CLKenb	GPH03	65	66	GPH15	Xci0YDATA5		
	Xci0YDATA0	GPH10	67	68	GPH16	Xci0YDATA6		

MV540T CPU Module**H/W SPEC**

	Xci0YDATA1	GPH11	69	70	GPH17	Xci0YDATA7	
			71	72			
MiPi CSI Ch0	Xmipi0SDPCLK		73	74		Xmipi0MDP2	MiPi DSI Ch0
Pair Trace	Xmipi0SDNCLK		75	76		Xmipi0MDN2	Pair Trace
			77	78			
	Xmipi0SDP1		79	80		Xmipi0MDPCLK	
	Xmipi0SDN1		81	82		Xmipi0MDNCLK	
			83	84			
	Xmipi0SDP0		85	86		Xmipi0MDP1	
	Xmipi0SDN0		87	88		Xmipi0MDN1	
			89	90			
	Xmipi0SDP3		91	92		Xmipi0MDP3	
	Xmipi0SDN3		93	94		Xmipi0MDN3	
			95	96			
	Xmipi0SDP2		97	98		Xmipi0MDP0	
	Xmipi0SDN2		99	100		Xmipi0MDN0	

BCN2							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
USB3.0 Ch1 High Speed Pair Trace	XUSB3VBUS0 XUSB3DM0 XUSB3DP0 XUSB3ID0 XUSB3TX0M XUSB3TX0P XUSB3RX0M XUSB3RX0P		1	2	GPY03	SROM_CSn3/	EBI
			3	4	GPY02	SROM_CSn2	
			5	6	GPY01	SROM_CSn1	
			7	8	GPY00	SROM_CSn0	
			9	10			
			11	12		SROM_WAITn	
			13	14		EBI_BEn1	
			15	16		EBI_BEn0	
			17	18		EBI_WEn	
			19	20		EBI_OEn	
			21	22		EBI_DATA_RDn	
			23	24		SROM_CLE	
			25	26		SROM_ALE	
			27	28		SROM_RnB0	
USB2.0 Pair Trace	XuhostDM XuhostDP XuotgVBUS XuhostOVERCUR XuhostPWREN		29	30		SROM_RnB1	
			31	32		SROM_RnB2	
			33	34		SROM_RnB3	
			35	36			
			37	38		EBI_DATA0	
			39	40		EBI_DATA1	
High Speed HSIC	XHISCDATA1 XHISICSTROBE1 XHISCDATA2 XHISICSTROBE2		41	42		EBI_DATA2	
			43	44		EBI_DATA3	
			45	46		EBI_DATA4	
			47	48		EBI_DATA5	
EBI	EBL_ADDR0 EBL_ADDR1 EBL_ADDR2 EBL_ADDR3 EBL_ADDR4 EBL_ADDR5 EBL_ADDR6 EBL_ADDR7 EBL_ADDR8 EBL_ADDR9	HSLCAWAKE HSLCADATA	49	50		EBI_DATA6	
			51	52		EBI_DATA7	
			53	54		EBI_DATA8	
			55	56		EBI_DATA9	
			57	58		EBI_DATA10	
			59	60		EBI_DATA11	
			61	62		EBI_DATA12	
			63	64		EBI_DATA13	
			65	66		EBI_DATA14	
			67	68		EBI_DATA15	
			69	70			
			71	72	EF_RnB03	EBL_ADDR11	

MV540T CPU Module**H/W SPEC**

OM	EBL_ADDR10	/HSI_CAFLAG	73	74	HSI_ACWAKE	EBL_ADDR12	PMIC System
			75	76	EF_RnB11	EBL_ADDR13	
	XOM1		77	78	EF_RnB12	EBL_ADDR14	
	XOM2		79	80	EF_RnB13	EBL_ADDR15	
	XOM3		81	82			
XOM4		83	84		XnRSTOUT		
XOM5		85	86		PM_ON		
			87	88			
PMIC System	JIGONB		89	90		XPWRRGTON	
	PM_PSHOLD		91	92		PM_RSOB	
	XnRESET		93	94		32KHz_BT_OUT	
	XnWRESET		95	96		32KHz_CP_OUT	
	MRSTB		97	98		VDD_RTC_PM	
			99	100			

BCN3							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
MiPi CSI Ch1 Pair Trace	Xmipi1SDP2		1	2		Xmipi1MDP3	MiPi DSI Ch1 Pair Trace
			3	4			
	Xmipi1SDN2		5	6		Xmipi1MDN3	
			7	8			
	Xmipi1SDP1		9	10		Xmipi1MDP2	
			11	12			
	Xmipi1SDN1		13	14		Xmipi1MDN2	
			15	16			
	Xmipi1SDP3		17	18		Xmipi1MDPCLK	
			19	20			
	Xmipi1SDN3		21	22		Xmipi1MDNCLK	
			23	24			
	Xmipi1SDPCLK		25	26		Xmipi1MDP1	
			27	28			
	Xmipi1SDNCLK		29	30		Xmipi1MDP0	
			31	32			
Xmipi1SDP0		33	34		Xmipi1MDN0		
		35	36				
Xmipi1SDN0		37	38		XhdmITXCN		
		39	40				
Key Port for BASE	GPK0_0/EXT_INT28_0		41	42		XhdmITXCP	HDMI Pair Trace
			43	44			
	GPK0_1/EXT_INT28_1		45	46		XhdmITX0N	
			47	48			
	GPK0_2/EXT_INT28_2		49	50		XhdmITX0P	
			51	52			
	GPK0_2/EXT_INT28_3		53	54		XhdmITX1N	
			55	56			
	GPK0_2/EXT_INT28_4		57	58		XhdmITX1P	
			59	60			
	GPK0_2/EXT_INT28_5		61	62		XhdmITX2N	
			63	64			
	GPK0_2/EXT_INT28_6		65	66		XhdmITX2P	
			67	68			
	GPK0_2/EXT_INT28_7		69	70		XDPAUXN	
			71	72			
GPK1_0/EXT_INT29_0		71	72		XDPAUXP	sDP DSI Pair Trace	
		71	72				
GPK1_0/EXT_INT29_1		71	72		XDPTX3N		
		71	72				
GPK1_0/EXT_INT29_2		71	72				
		71	72				
GPK1_0/EXT_INT29_3		71	72				
		71	72				
GPK1_0/EXT_INT29_4		71	72				
		71	72				
GPK1_0/EXT_INT29_5		71	72				
		71	72				
GPK1_0/EXT_INT29_6		71	72				
		71	72				
GPK1_0/EXT_INT29_7		71	72				
		71	72				

MV540T CPU Module**H/W SPEC**

			73	74		XDPTX3P	
			75	76			
	USB30_OVERCUR_OUT0		77	78		XDPTX2N	
	USB30_VBUS_CTRL0		79	80		XDPTX2P	
	USB30_OVERCUR_OUT1		81	82			
	USB30_VBUS_CTRL1		83	84		XDPTX1N	
			85	86		XDPTX1P	
			87	88			
ADC CH1	Xadc1AIN0		89	90		XDPTX0N	
	Xadc1AIN1		91	92		XDPTX0P	
	Xadc1AIN2		93	94			
	Xadc1AIN3		95	96			
			97	98			
			99	100			

BCN4									
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능		
XEINT			1	2			XEINT		
	XEINT16		3	4	GNSS_TCK	XEINT0/AUD_TCK			
	XEINT17		5	6	GNSS_TMS	XEINT1/AUD_TMS			
	XEINT18		7	8	GNSS_TDI	XEINT2/AUD_TDI			
	XEINT19		9	10	GNSS_TDO	XEINT3/AUD_TDO			
	XEINT20		11	12	GNSS_TRSTn	XEINT4/AUD_TRSTn			
	XEINT21		13	14	GNSS_RTCK	XEINT5/AUD_RTCK			
	XEINT22		15	16	XEINT6				
	XEINT23		17	18	DPO_HPD	XEINT7			
	XEINT24		19	20		XEINT8			
	XEINT25		21	22		XEINT9			
			23	24		XEINT10			
	XEINT27		25	26					
	XEINT28		27	28		XEINT12			
	XEINT29		29	30		XEINT13			
	XEINT30/HDMI_CEC		31	32		XEINT14			
	XEINT31/HDMI_HPD		33	34		XEINT15			
			35	36					
			37	38					
	GPIO	GPK2_0/EXT_INT30_0		39	40			XJTRSTn	JTAG
	GPIO	GPK2_1/EXT_INT30_1		41	42			XJTMS	
		GPK2_1/EXT_INT30_2		43	44			XJTDI	
		GPK2_1/EXT_INT30_3		45	46			XJTDO	
				47	48			XJTCK	
				49	50				
			51	52					
PMIC	PVDD_BUCK10		53	54		PVDD_LDO31	PMIC LDO		
Buck & LDO			55	56	VDD_28DP	PVDD_LDO37			
	PVDD_LDO20	CAM_IO_1V8	57	58					
	PVDD_LDO29	SD1_VDD_2.85V	59	60		PVDD_LDO32			
			61	62		PVDD_LDO18			
	PVDD_LDO30		63	64					
	PVDD_LDO25		65	66	VDD_AUO(3.3V)	PVDD_LDO15			
			67	68	LVDS_1V8	PVDD_LDO33			
	PVDD_LDO21	CAM_1V5	69	70					
	PVDD_LDO34	LCD_3V3	71	72	VDD_COMPASS	PVDD_LDO36			

MV540T CPU Module**H/W SPEC**

			73	74	AF_VDD(3.3V)	PVDD_LDO17	
	PVDD_LDO19	VCC_GPS(3.3V)	75	76	MIPICAM_1V2	PVDD_LDO27	
	PVDD_LDO14	HSIC_Hub_3v3	77	78			
	PVDD_LDO22		79	80	LAN_3.3V	PVDD_LDO28	
			81	82	LVDS_1V2	PVDD_LDO35	
	PVDD_LDO23	HUB_1V2	83	84			
	PVDD_LDO16	MIPICAM_2V8	85	86	CAM_2.8V	PVDD_LDO24	
	PVDD_LDO26	Magnetic Sensor	87	88	VDD_GYRO(2.5V)	PVDD_LDO38	
			89	90			
			91	92			
			93	94			
			95	96			
			97	98			
			99	100			

BCN5							
기능	핀 이름	GPIO	핀 번호		GPIO	핀 이름	기능
UART0	XuRTSn0		1	2			I2C 0,1 Uart 2 & GPIO
	XuCTSn0		3	4			
	XuRXD0		5	6		XuRXD2	
	XuTXD0		7	8		XuTXD2	
MMC Ch1	Xmmc1WP	KP_COL3	9	10	i2cSDA3	XuCTSn2	UART 1,3 & I2C 2
	Xmmc1BEPW	KP_COL2	11	12	i2cSCL3	XuRTSn2	
	Xmmc1CDN		13	14			
	Xmmc1CLK		15	16		Xi2cSDA0	
	Xmmc1INTN	KP_COL1	17	18		Xi2cSCL0	
	Xmmc1CMD		19	20	MIPI_2_BYTE_CLK	Xi2cSDA1	
			21	22	MIPI_2_ESC_CLK	Xi2cSCL1	
			23	24			
			25	26		XuRXD3	
			27	28		XuTXD3	
			29	30			
			31	32		XuTXD1	
			33	34		XuRXD1	
			35	36	i2cSDA2	XuCTSn1	
			37	38	i2cSCL2	XuRTSn1	
			39	40			
			41	42	LCD_B_PWM	XpwmTOUT0	
			43	44	LCD_PWM	XpwmTOUT1	
	MMC Ch2			45	46	i2cSDA7	
			47	48	i2cSCL7	XpwmTOUT3	
Xmmc2WP			49	50			
Xmmc2BIUV			51	52			
Xmmc2DATA0			53	54			
Xmmc2DATA1			55	56			
Xmmc2DATA3			57	58			
Xmmc2DATA2			59	60			
			61	62	PCM_2_SCLK	Xi2s2SCLK	
			63	64	PCM_2_EXTCLK	Xi2s2CDCLK	
		65	66	PCM_2_FSYNC	Xi2s2LRCK		
		67	68	PCM_2_SIN	Xi2s2SDI		
		69	70	PCM_2_SOUT	Xi2s2SDO		
XGPIO	XGPIO0	CSL_CLK0	71	72			

MV540T CPU Module**H/W SPEC**

	XGPIO1	CSL_CLK1	73	74			
	XGPIO2	CSL_CLK2	75	76			
			77	78			
			79	80			
USB3.0 Ch0	XUSB3VBUS0_0		81	82			
High Speed	XUSB3DM0_0		83	84			
Pair Trace	XUSB3DP0_0		85	86	PCM_0_SCLK	Xi2s0SCLK	
	XUSB3ID0_0		87	88	PCM_0_EXTCLK	Xi2s0CDCLK	
			89	90	PCM_0_FSYNC	Xi2sLRCK	
	XUSB3TX0M_0		91	92	PCM_0_SIN	Xi2s0SDI	
	XUSB3TX0P_0		93	94	PCM_0_SOUT	Xi2s0SDO_0	
			95	96	ST_TICK	Xi2sSDO_1	
	XUSB3RX0M_0		97	98	ST_INT	Xi2sSDO_2	
	XUSB3RX0P_0		99	100			