Armadillo-IoT ゲートウェイ G4
拡張インターフェース(CON11、CON12)、LVDSインターフェース(CON9) マルチプレクス表

部品番号	ピン番号	信号名	i.MX8MPlus					基板上のPull-Up/Pull-Downとコンデンサ	マルチプレクス機能(i.MX8MPlusの信号名で表記)							
			ピン名	電圧グループ	リセット解除後の信号状態				GPIO	ECSPI	UART	PDM MIC	CAN	I2S	I2C	PWM
					機能	In/Out	Value									
CON11	1	VIN				-										
	2	VIN				-										
	3	GND				-										
	4	GND				-										
	5	I2C4_SCL	I2C4_SCL	VDD_1V8	GPIO5_IO20	In	Pull-Down	4.7kΩ Pull-Up	GPIO5_IO20						I2C4_SCL	
	6	ECSPI1_MISO	ECSPI1_MISO	VDD_1V8	GPIO5_IO08	In	Pull-Down		GPIO5_IO08	ECSPI1_MISO	UART3_CTS_B					
	7	I2C4_SDA	I2C4_SDA	VDD_1V8	GPIO5_IO21	In	Pull-Down	4.7kΩ Pull-Up	GPIO5_IO21						I2C4_SDA	
	8	ECSPI1_MOSI	ECSPI1_MOSI	VDD_1V8	GPIO5_IO07	In	Pull-Down		GPIO5_IO07	ECSPI1_MOSI	UART3_TX					
	9	ECSPI2_MISO	ECSPI2_MISO	VDD_1V8	GPIO5_IO12	In	Pull-Down		GPIO5_IO12	ECSPI2_MISO	UART4_CTS_B					
	10	ECSPI1_SCLK	ECSPI1_SCLK	VDD_1V8	GPIO5_IO06	In	Pull-Down		GPIO5_IO06	ECSPI1_SCLK	UART3_RX					
	11	ECSPI2_MOSI	ECSPI2_MOSI	VDD_1V8	GPIO5_IO11	In	Pull-Down		GPIO5_IO11	ECSPI2_MOSI	UART4_TX					
	12	ECSPI1_SS0	ECSPI1_SS0	VDD_1V8	GPIO5_IO09	In	Pull-Down		GPIO5_IO09	ECSPI1_SS0	UART3_RTS_B					
	13	ECSPI2_SCLK	ECSPI2_SCLK	VDD_1V8	GPIO5_IO10	In	Pull-Down		GPIO5_IO10	ECSPI2_SCLK	UART4_RX					
	14	SAI3_TXFS	SAI3_TXFS	VDD_1V8	GPIO4_IO31	In	Pull-Down		GPIO4_IO31					SAI3_TX_SYNC		
	15	ECSPI2_SS0	ECSPI2_SS0	VDD_1V8	GPIO5_IO13	In	Pull-Down		GPIO5_IO13	ECSPI2_SS0	UART4_RTS_B					
	16	SAI3_TXC	SAI3_TXC	VDD_1V8	GPIO5_IO00	In	Pull-Down		GPIO5_IO00					SAI3_TX_BCLK		
	17	SAI5_RXC	SAI5_RXC	VDD_1V8	GPIO3_IO20	In	Pull-Down		GPIO3_IO20			PDM_CLK			I2C6_SDA	PWM3_OUT
	18	SAI3_TXD	SAI3_TXD	VDD_1V8	GPIO5_IO01	In	Pull-Down		GPIO5_IO01					SAI3_TX_DATA0		
	19	SAI5_RXD0	SAI5_RXD0	VDD_1V8	GPIO3_IO21	In	Pull-Down		GPIO3_IO21			PDM_BIT_STREAM0			I2C5_SCL	PWM2_OUT
	20	SAI3_RXD	SAI3_RXD	VDD_1V8	GPIO4_IO30	In	Pull-Down		GPIO4_IO30					SAI3_RX_DATA0		
	21	SAI5_RXD1	SAI5_RXD1	VDD_1V8	GPIO3_IO22	In	Pull-Down		GPIO3_IO22			PDM_BIT_STREAM1	FLEXCAN1_TX			
	22	SAI3_MCLK	SAI3_MCLK	VDD_1V8	GPIO5_IO02	In	Pull-Down		GPIO5_IO02					SAI3_MCLK		
	23	SAI5_RXD2	SAI5_RXD2	VDD_1V8	GPIO3_IO23	In	Pull-Down		GPIO3_IO23			PDM_BIT_STREAM2	FLEXCAN1_RX			
	24	GPIO1_IO15	GPIO1_IO15	VDD_1V8	GPIO1_IO15	In	Pull-Down		GPIO1_IO15							
	25	SAI5_RXD3	SAI5_RXD3	VDD_1V8	GPIO3_IO24	In	Pull-Down		GPIO3_IO24			PDM_BIT_STREAM3	FLEXCAN2_TX			
	26	USBDM_DN2	—		—	—	—									
	27	SAI5_MCLK	SAI5_MCLK	VDD_1V8	GPIO3_IO25	In	Pull-Down		GPIO3_IO25				FLEXCAN2_RX		I2C5_SDA	PWM1_OUT
	28	USBDP_DN2	—		—	—	—									
	29	SAI5_RXFS	SAI5_RXFS	VDD_1V8	GPIO3_IO19	In	Pull-Down		GPIO3_IO19						I2C6_SCL	PWM4_OUT
	30	VDD_1V8														
	31	VDD_5V														
	32	VDD_5V														
	33	GND														
	34	GND														
CON12	1	PWR_OFF	GPIO1_IO01	VDD_1V8	GPIO1_IO01	In リセット中 Low出力	Pull-Down		GPIO1_IO01							PWM1_OUT
	2	GPIO2_IO11	SD1_STROBE	VDD_1V8	GPIO2_IO11	In	Pull-Down		GPIO2_IO11							
	3	REBOOT	GPIO1_IO05	VDD_1V8	GPIO1_IO05	In リセット中 High出力	Pull-Up		GPIO1_IO05							
	4	GPIO4_IO27	SAI2_MCLK	VDD_1V8	GPIO4_IO27	In	Pull-Down		GPIO4_IO27				FLEXCAN2_RX			
	5	ONOFF	ONOFF	NVCC_SNVS_1V8	ONOFF	In	Pull-Up	100kΩ Pull-Up								
	6	GPIO4_IO28	SAI3_RXFS	VDD_1V8	GPIO4_IO28	In	Pull-Down		GPIO4_IO28			PDM_BIT_STREAM0				
	7	FW_UPDATE_IND	GPIO1_IO00	VDD_1V8	GPIO1_IO00	In	Pull-Down		GPIO1_IO00							
	8	GPIO4_IO29	SAI3_RXC	VDD_1V8	GPIO4_IO29	In	Pull-Down		GPIO4_IO29			PDM_CLK				
	9	STDWN_IND	GPIO1_IO07	VDD_1V8	GPIO1_IO07	In	Pull-Down		GPIO1_IO07							
	10	GPIO3_IO08	NAND_DATA02	VDD_1V8	GPIO3_IO08	In	Pull-Down		GPIO3_IO08		UART4_CTS_B					
	11	PWR_IND	GPIO1_IO06	VDD_1V8	GPIO1_IO06	In	Pull-Down		GPIO1_IO06							
	12	GPIO3_IO09	NAND_DATA03	VDD_1V8	GPIO3_IO09	In	Pull-Down		GPIO3_IO09		UART4_RTS_B					
	13	GPIO2_IO08	SD1_DATA6	VDD_1V8	GPIO2_IO08	In	Pull-Down		GPIO2_IO08							
	14	GPIO3_IO14	NAND_DQS	VDD_1V8	GPIO3_IO14	In	Pull-Down		GPIO3_IO14							
	15	GND														
	16	GND														
CON9	1	GND														
	2	VIN														
	3	VIN														
	4	VIN														
	5	VIN														
	6	GND														
	7	I2C4_SCL	I2C4_SCL	VDD_1V8	GPIO5_IO20	In	Pull-Down	4.7kΩ Pull-Up	GPIO5_IO20							
	8	I2C4_SDA	I2C4_SDA	VDD_1V8	GPIO5_IO21	In	Pull-Down	4.7kΩ Pull-Up	GPIO5_IO21							
	9	GND														
	10	LVDS0_TX0N	LVDS0_D0_N		—	—	—									
	11	LVDS0_TX0P	LVDS0_D0_P		—	—	—									
	12	GND														
	13	LVDS0_TX1N	LVDS0_D1_N		—	—	—									
	14	LVDS0_TX1P	LVDS0_D1_P		—	—	—									
	15	GND														
	16	LVDS0_CLKN	LVDS0_CLK_N		—	—	—									
	17	LVDS0_CLKP	LVDS0_CLK_P		—	—	—									
	18	GND														
	19	LVDS0_TX2N	LVDS0_D2_N		—	—	—									
	20	LVDS0_TX2P	LVDS0_D2_P		—	—	—									
	21	GND														
	22	LVDS0_TX3N	LVDS0_D3_N		—	—	—									
	23	LVDS0_TX3P	LVDS0_D3_P		—	—	—									
	24	GND														
	25	GPIO3_IO00	NAND_ALE	VDD_1V8	GPIO3_IO00	In	Pull-Down		GPIO3_IO00		UART3_RX					
	26	GPIO3_IO01	NAND_CE0_B	VDD_1V8	GPIO3_IO01	In	Pull-Down		GPIO3_IO01		UART3_TX					
	27	GPIO5_IO03	SPDIF_TX	VDD_1V8	GPIO5_IO03	In	Pull-Down		GPIO5_IO03				FLEXCAN1_TX		I2C5_SCL	PWM3_OUT
	28	GPIO5_IO04	SPDIF_RX	VDD_1V8	GPIO5_IO04	In	Pull-Down		GPIO5_IO04				FLEXCAN1_RX		I2C5_SDA	PWM2_OUT
	29	GND														
	30	VDD_1V8														
	31	GND														