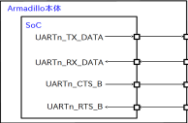


ArmadiIo-IoT ゲートウェイ G3
CON1/2 アドオンモジュール(フェーズ2) マルチプレクス表

ピン番号	信号名	I/O ¹⁾	汎用 ²⁾	LNX7D ピン名	リセット前後の信号状態			マルチプレクス機能(LMX7Dの信号名で表記)										ArmadiIo-IoT アドオンモジュールの使用機能										CON1、CON2共通機能 ³⁾	
					機能	In/Out	Pull-Up/Pull-Down	GPIO	UART2 ^{2H)}	UART3 ^{2H)}	UART4 ^{2H)}	CSP11	CSP13	CSP14	I2C1	I2C2	I2C3	CAN1 ^{2H)}	CAN2 ^{2H)}	RS232C RS00	RS232C/422/485 RS01	RS485 RS02	BLE BT00	EnOcean EN00	Wi-SUN WS00	DIDOAD DA00			
1	GND																											GND	
2	GND																											GND	
3	NC																											NC	
4	NC																											NC	
5	NC																											NC	
6	NC																											NC	
7	NC																											NC	
8	NC																											NC	
9	NC																											NC	
10	NC																											NC	
11	NC																											NC	
12	NC																											NC	
13	NC																											NC	
14	NC																											NC	
15	NC																											NC	
16	NC																											NC	
17	NC																											NC	
18	NC																											NC	
19	NC																											NC	
20	GPIO4_I08	○		I2C1_SCL	GPIO	In	100kΩ Pull-Down	GPIO4_I08			UART4_CTS_B		ECSP13_MISO			I2C1_SCL			FLEXCAN1_RX		I2C1_SCL (EEPROM_SCL)	I2C1_SCL (EEPROM_SCL)	I2C1_SCL (EEPROM_SCL)	I2C1_SCL (EEPROM_SCL)	I2C1_SCL (EEPROM_SCL)	I2C1_SCL (EEPROM_SCL)	I2C1_SCL (EEPROM_SCL)	I2C1_SCL (EEPROM_SCL)	EEPROM_SCL
21	GPIO4_I09	○		I2C1_SDA	GPIO	In	100kΩ Pull-Down	GPIO4_I09			UART4_RTS_B		ECSP13_MOSI			I2C1_SDA			FLEXCAN1_TX		I2C1_SDA (EEPROM_SDA)	I2C1_SDA (EEPROM_SDA)	I2C1_SDA (EEPROM_SDA)	I2C1_SDA (EEPROM_SDA)	I2C1_SDA (EEPROM_SDA)	I2C1_SDA (EEPROM_SDA)	I2C1_SDA (EEPROM_SDA)	I2C1_SDA (EEPROM_SDA)	EEPROM_SDA
22	NC																											NC	
23	NC																											NC	
24	GPIO4_I010	○		I2C2_SCL	GPIO	In	100kΩ Pull-Down	GPIO4_I010			UART4_RX_DATA		ECSP13_SCLK			I2C2_SCL											GPIO4_I010 (DO1)	I2C_SCL/GPIO	
25	GPIO4_I011	○		I2C2_SDA	GPIO	In	100kΩ Pull-Down	GPIO4_I011			UART4_TX_DATA		ECSP13_SS0			I2C2_SDA										GPIO4_I011 (DO2)	I2C_SDA/GPIO		I2C_SDA/GPIO
26	GND																											GND	
27	GND																											GND	
28	VCC_3.3V_I0																											VCC_3.3V_I0	
29	VCC_3.3V																											VCC_3.3V	
30	VCC_5V																											VCC_5V	
31	DETECT_CON2					Out																						EEPROM_E0	
32	GPIO4_I02	○		UART2_RXD	GPIO	In	100kΩ Pull-Down	GPIO4_I02	UART2_RX_DATA				ECSP11_SS3			I2C2_SCL					EEPROM_E0	EEPROM_E0	EEPROM_E0	EEPROM_E0	EEPROM_E0	EEPROM_E0	EEPROM_E0	EEPROM_E0	EEPROM_E0
33	GPIO5_I011	○		SD2_RESET_B	GPIO	In	100kΩ Pull-Down	GPIO5_I011					ECSP13_RDY								GPIO4_I02 (HALF/FULL*)	GPIO4_I02 (RS485_DE)		GPIO4_I02 (PROG_EN)				GPIO0	
34	GPIO4_I03	○		UART2_TXD	GPIO	In	100kΩ Pull-Down	GPIO4_I03	UART2_TX_DATA				ECSP11_RDY			I2C2_SDA						GPIO5_I011 (RS485_RE*)						GPIO1	
35	GPIO4_I06	○		UART3_RTS	GPIO	In	100kΩ Pull-Down	GPIO4_I06			UART3_RTS_B		ECSP11_SCLK															SPI_RDY/GPIO	
36	GPIO4_I04	○		UART3_RXD	GPIO	In	100kΩ Pull-Down	GPIO4_I04			UART3_RX_DATA		ECSP11_MISO															SPI_SCLK/GPIO	
37	GPIO4_I05	○		UART3_TXD	GPIO	In	100kΩ Pull-Down	GPIO4_I05			UART3_TX_DATA		ECSP11_MOSI															SPI_MISO/GPIO	
38	GPIO3_I03	○		LCD_VSYN	GPIO	In	100kΩ Pull-Down	GPIO3_I03	UART2_CTS_B					ECSP14_SS0							UART2_CTS_B (RTS)	UART2_CTS_B (RTS)				UART2_CTS_B (CTS/PI05)		UART2_CTS_B (CTS)	UART_DTE_RTS(Output)/GPIO
39	GPIO3_I02	○		LCD_HSYN	GPIO	In	100kΩ Pull-Down	GPIO3_I02	UART2_RTS_B					ECSP14_SCLK							UART2_RTS_B (CTS)	UART2_RTS_B (CTS)				UART2_RTS_B (RTS/PI06)		UART2_RTS_B (RTS)	UART_DTE_CTS(Input)/GPIO
40	GPIO3_I01	○		LCD_ENABLE	GPIO	In	100kΩ Pull-Down	GPIO3_I01	UART2_TX_DATA					ECSP14_MOSI							UART2_TX_DATA (TXD)	UART2_TX_DATA (TXD)	UART2_TX_DATA (UART_TXD)	UART2_TX_DATA (UART_TXD)	UART2_TX_DATA (ANDIO6/RXD)		UART2_TX_DATA (RXD)		UART_DTE_TXD(Input)/GPIO
41	GPIO3_I00	○		LCD_CLK	GPIO	In	100kΩ Pull-Down	GPIO3_I00	UART2_RX_DATA					ECSP14_MISO							UART2_RX_DATA (RXD)	UART2_RX_DATA (RXD)	UART2_RX_DATA (UART_TXD)	UART2_RX_DATA (UART_TXD)	UART2_RX_DATA (ANDIO7/TXD)		UART2_RX_DATA (TXD)		UART_DTE_RXD(Input)/GPIO
42	GPIO4_I012	○		I2C3_SCL	GPIO	In	100kΩ Pull-Down	GPIO4_I012									I2C3_SCL		FLEXCAN2_RX	GPIO4_I012 (FORCEOFF*)	GPIO4_I012 (RS485/RS232*)		GPIO4_I012 (WAKE_HW)	GPIO4_I012 (RESET)	GPIO4_I012 (RESET)			GPIO2	
43	GPIO4_I013	○		I2C3_SDA	GPIO	In	100kΩ Pull-Down	GPIO4_I013									I2C3_SDA		FLEXCAN2_TX		GPIO4_I013 (ISOLATOR_VE1)		GPIO4_I013 (WAKE_SW)		GPIO4_I013 (NMIX)	GPIO4_I013 (ISOLATOR_VE1)		GPIO3	
44	NC																											NC	
45	NC																											NC	
46	GPIO6_I019	○		SAI2_TXFS	GPIO	In	100kΩ Pull-Down	GPIO6_I019			UART4_RX_DATA		ECSP13_MISO								GPIO6_I019 (RI)								GPIO4
47	GPIO6_I020	○		SAI2_TXC	GPIO	In	100kΩ Pull-Down	GPIO6_I020			UART4_TX_DATA		ECSP13_MOSI								GPIO6_I020 (DCD)						GPIO6_I020 (DI2)	GPIO5	
48	GPIO6_I021	○		SAI2_RXD	GPIO	In	100kΩ Pull-Down	GPIO6_I021	UART2_CTS_B		UART4_CTS_B		ECSP13_SCLK								GPIO6_I021 (DSR)						GPIO6_I021 (DI1)	GPIO6	
49	GPIO6_I022	○		SAI2_TXD	GPIO	In	100kΩ Pull-Down	GPIO6_I022	UART2_RTS_B		UART4_RTS_B		ECSP13_SS0								GPIO6_I022 (DTR)							GPIO7	
50	GPIO4_I07	○		UART3_CTS	GPIO	In	100kΩ Pull-Down	GPIO4_I07			UART3_CTS_B		ECSP11_SS0												ECSP11_SS0 (SCSEDIO0)			GPIO4_I07 (CS*/SHDN)	SPI_SS/GPIO
51	NC																											NC	
52	NC																											NC	
53	NC																											NC	
54	GND																				GND	GND	GND	GND	GND	GND	GND	GND	
55	PMIC_ONOFF					In	47kΩ Pull-Up (3V)																					PMIC_ONOFF	
56	CON2_USB_VBUS																											USB_VBUS	
57	CON2_USB_VBUS																											USB_VBUS	
58	GND																				GND	GND	GND	GND	GND	GND	GND	GND	
59	CON2_USB_HS_DP				USB																							USB_DP	
60	CON2_USB_HS_DM				USB																							USB_DM	

1a) CON1と信号が共有されています。拡張基板の設計の際は、信号の衝突にご注意ください。
1b) 出番状態のソフトウェアでの入出力方向は次の通りです。



1c) ソフトウェア未対応 (2016年6月現在)
1d) アットマークテクノ製アドオンモジュールで想定している機能設定です。CON1とCON2が同一ピン配置になるように、使用するピンと機能を制限しています。