

IchigoJam R ピン配置

IchigoJam R	QFP48	QFN36	5V tolerant	function1	function2	function3	function4	function5	function6	function7
-		1		VBAT						
*		2		PC13	TAMPER-RTC					
*		3		PC14	OSC32IN					
*		4		PC15	OSC32OUT					
XTAL 8MHz		5	2	OSCIN	PD0					
XTAL 8MHz		6	3	OSCOUT	PD1					
RESET		7	4	NRST						
GND		8	5	VSSA						
VCC		9	6	VDDA						
BTN		10	7	PA0	WKUP	USART1_CTS	ADC01_IN0	TIMER1_CH0_	TIMER4_CH0	
IN1		11	8	PA1	USART1_RTS	ADC01_IN1	TIMER4_CH1	TIMER1_CH1		
OUT5		12	9	PA2	USART1_TX	TIMER4_CH2	ADC01_IN2	TIMER1_CH2		
OUT6		13	10	PA3	USART1_RX	TIMER4_CH3	ADC01_IN3	TIMER1_CH3		
IN2		14	11	PA4	SPI0_NSS	USART1_CK	ADC01_IN4	DAC_OUT0	SPI2_NSS	I2S2_WS
IN3		15	12	PA5	SPI0_SCK	ADC01_IN5	DAC_OUT1			
IN4		16	13	PA6	SPI0_MISO	ADC01_IN6	TIMER2_CH0	TIMER0_BRKIN		
OUT2		17	14	PA7	SPI0_MOSI	ADC01_IN7	TIMER2_CH1	TIMER0_CH0_ON		
OUT3		18	15	PB0	ADC01_IN8	TIMER2_CH2	TIMER0_CH1_ON			
OUT4		19	16	PB1	ADC01_IN9	TIMER2_CH3	TIMER0_CH2_ON			
EX1		20	17 5VT	PB2	BOOT1					
*		21	5VT	PB10	I2C1_SCL	USART2_TX	TIMER1_CH2			
*		22	5VT	PB11	I2C1_SDA	USART2_RX	TIMER1_CH3			
GND		23	18	VSSA						
VCC		24	19	VDDA						
*		25	5VT	PB12	SPI1_NSS	I2S1_WS	I2C1_SMBA	USART2_CK	TIMER0_BRK	CAN1_RX
*		26	5VT	PB13	SPI1_SCK	I2S1_CK	USART2_CTS	TIMER0_CH0_	CAN1_TX	
*		27	5VT	PB14	SPI1_MISO	USART2_RTS	TIMER0_CH1_ON			
*		28	5VT	PB15	SPI1_MOSI	TIMER0_CH2_	I2S1_SD			
OUT1		29	20 5VT	PA8	USART0_CK	TIMER0_CH0	CK_OUT0	USBFS_SOF		
TXD		30	21 5VT	PA9	USART0_TX	TIMER0_CH1	USBFS_VBUS			
RXD		31	22 5VT	PA10	USART0_RX	TIMER0_CH2	USBFS_ID			
KBD2		32	23 5VT	PA11	USART0_CTS	CAN0_RX	TIMER0_CH3	USBFS_DM		
KBD1		33	24 5VT	PA12	USART0_RTS	CAN0_TX	TIMER0_ETI	USBFS_DP		
DC		34	25 5VT	JTMS	PA13					
GND		35	26	VSS						
VCC		36	27	VDD						
LED		37	28 5VT	JTCK	PA14					
SOUND		38	29 5VT	JTDI	SPI2_NSS	I2S2_WS	TIMER1_CH0_	PA15	SPI0_NSS	
SCK		39	30 5VT	JTDO	SPI2_SCK	I2S2_CK	PB3	TIMER1_CH1	SPI0_SCK	
VIDEO1/CIPO		40	31 5VT	NJTRST	SPI2_MISO	TIMER2_CH0	PB4	SPI0_SCK		
VIDEO2/COPI		41	32	PB5	I2C0_SMBA	SPI2_MOSI	I2S2_SD	TIMER2_CH1	SPI0_MOSI	CAN1_TX
SCL		42	33 5VT	PB6	I2C0_SCL	TIMER3_CH0	USART0_TX	CAN1_TX		
SDA		43	34 5VT	PB7	I2C0_SDA	TIMER3_CH1	USART0_RX			
ISP		44	35	BOOT0						
*		45	5VT	PB8	TIMER3_CH2	I2C0_SCL	CAN0_RX			
*		46	5VT	PB9	TIMER3_CH3	I2C0_SDA	CAN0_TX			
GND		47	36	VSS						
VCC		48	1	VDD						

CN6 外付け液晶 ILI9341などの接続用

5V

5V

CIPO VIDEO1を配線 (CIPO controler input peripheral output、元MISO)

COPI VIDEO2を配線 (COPI controler output peripheral input、元MOSI)

SCK

DC

RESET (起動後、ディスプレイ制御用に一時的に GPIOにして一度 GNDにする)

VCC

GND

CN5

5V
SDA
SCL
VCC
GND

CN4

VIDEO1 VIDEO1 - 470Ω --+ ビデオ端子 - GND
VIDEO2 VIDEO2 - 100Ω --+
IN1
IN2
IN3
IN4
VCC
GND
OUT1
OUT2
OUT3
OUT4
BTN
LED LED - 680Ω - (赤色LED) - GND

CN3

KBD1
NC
KBD2
SOUND SOUND - (サウンダー) - GND
ISP ISP - 10kΩ-GND
RESET
GND
VCC
SCL 元XTAL (プルアップは内蔵しない)
SDA 元XTAL (プルアップは内蔵しない)
OUT5
OUT6
TXD
RXD

XTAL

OSCIN OSCIN - XTAL -- 15pF - GND
OSCOUT OSCOUT --+---- 15pF - GND