

BlueJay Signal Table

New York USA

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MISO = Micro In, Serial Device Out
MOSI = Micro Out, Serial Device In

Cyannocita cristata



PIC32M2 pin #	BlueJay name, primary functionality	Complete functionality	5 V tolerant	Ethernet name	Ethernet function	Polarity	RMII	Arduino	Pin #	MikroBus	Pin #	Pi Hat	J8 #	JTAG & Trace	JTAG HS Pin #	EBI	PMP
												Raspberry Pi B+				Parallel interfaces	
1	LED_n	AN23/AERXERR/RG15															
2	GioA5	EBIA5/AN34/PMA5/RA5														EBIA5	PMA5
3	GioE5	EBID5/AN17/RPE5/ PMD5/RE5														EBID5	PMD5
4	GioE6	EBID6/AN16/PMD6/RE6														EBID6	PMD6
5	GioE7	EBID7/AN15/PMD7/RE7														EBID7	PMD7
6	GioC1	EBIA6/AN22/RPC1/PMA6/ RC1														EBIA6	PMA6
7	GioC2	EBIA12/AN21/RPC2/ PMA12/RC2														EBIA12	PMA12
8	GioC3	EBIWE/AN20/RPC3/ PMWR/RC3														EBIWE	PMWR
9	GioC4	EBIOE/AN19/RPC4/PMRD/ RC4														EBIOE	PMRD
10	GioG6	AN14/C1IND/ECOL/RPG6/ SCK2/RG6		ECOL	Collision Detect	i	No										
11	GioG7	EBIA4/AN13/C1INC/ ECRS/RPG7/SDA4/ PMA4/RG7		ECRS	Carrier Sense	i	No									EBIA4	PMA4
12	GioG8	EBIA3/AN12/C2IND/ ERXDV/AERXDV/ AECRSDV/RPG8/SCL4/ PMA3/RG8		ERXDV	Receive Data Valid	i	No									EBIA3	PMA3
15	MCLR_n													MCLR_n	10		
16	GioG9	EBIA2/AN11/C2INC/ ERXCLK/EREFCLK/AERXCLK/ AEREFCLK/RPG9/PMA2/ RG9		ERXCLK	Receive Clock	i	No									EBIA2	PMA2
17	GioA0	TMS/EBIA16/AN24/RA0												JTAG_TMS	2	EBIA16	
18	GioE8	AN25/AERXD0/RPE8/RE8						PD7	7								
19	BattHalV	AN26/AERXD1/RPE9/RE9															
20	GioB5	AN45/C1INA/RPB5/RB5															
	Low Noise Analog																
21	Gan4	AN4/C1INB/RB4								AN	1						
22	Gan3	AN3/C2INA/RPB3/RB3						PC3/A3	17								
23	Gan2	AN2/C2INB/RPB2/RB2						PC2/A2	16								
24	Gan1	PGEC1/AN1/RPB1/RB1						PC1/A1	15								
25	Gan0	PGED1/AN0/RPB0/RB0						PC0/A0	14								
26	PGEC2	PGEC2/AN46/RPB6/RB6															
27	PGED2	PGED2/AN47/RPB7/RB7															
28	AGnd	VREF-/CVREF-/AN27/AERXD2/RA9															
29	Vref+ = 3.0 Vref	VREF+/CVREF+/AN28/AERXD3/RA10															
32	GioB8	EBIA10/AN48/RPB8/PMA10/RB8														EBIA10	PMA10
33	GioB9	EBIA7/AN49/RPB9/PMA7/RB9														EBIA7	PMA7
34	GioB10	EBIA13/CVREFOUT/AN5/ RPB10/PMA13/RB10														EBIA13	PMA13
35	GioB11	AN6/ERXERR/AETXERR/ RB11		ERXERR	Receive Error	i	Yes										
38	GioA1	TCK/EBIA19/AN29/RA1												JTAG_TCK	4	EBIA19	
39	GioF13	TDI/EBIA18/AN30/RPF13/ SCK5/RF13												JTAG_TDI	8	EBIA18	
40	GioF12	TDO/EBIA17/AN31/RPF12/ RF12						PD2/Int0	2					JTAG_TDO	6	EBIA17	
41	GioB12	EBIA11/AN7/ERXD0/AECRS/PMA11/RB12		ERXD0	Receive Data 0	i	Yes	PD3/Int1	3							EBIA11	PMA11
42	GioB13	AN8/ERXD1/AECOL/RB13		ERXD1	Receive Data 1	i	Yes	PD4	4								
43	GioB14	EBIA1/AN9/ERXD2/AETXD3/RPB14/SCK3/PMA1/R B14		ERXD2	Receive Data 2	i	No	PD5	5							EBIA1	PMA1
44	GioB15	EBIA0/AN10/ERXD3/ AETXD2/RPB15/OCFB/ PMA0/RB15		ERXD3	Receive Data 3	i	No	PD6	6							EBIA0	PMA0
47	GioD14	AN32/AETXD0/RPD14/RD14						PD7	7								
48	GioD15	AN33/AETXD1/RPD15/SCK6/RD15						PB0	8								
49	24MHz Osc																

50	BattCheck	OSC2/CLKO/RC15																		
51	Vbus	External USB 5V	Yes																	
52	Vusb3V3																			
54	D-																			
55	D+																			
56	GioF3	RPF3/USBID/RF3							PB1	9										
57	GioF2	EBIRDY3/RPF2/SDA3/RF2*	Yes						PB2/SPI_CS_n	10								EBIRDY3		
58	GioF8	EBIRDY2/RPF8/SCL3/RF8*	Yes															EBIRDY2		
59	GioA2	EBICS0/SCL2/RA2*	Yes															EBICS0		
60	GioA3	EBIRDY1/SDA2/RA3*	Yes															EBIRDY1		
61	GioA4	EBIA14/PMCS1/PMA14/RA4*	Yes															EBIA14	PMA14	
64	UA1_RxD	EBIA9/RPF4/SDA5/PMA9/RF4*	Yes						PD1/TxOut	1	Tx	13	TxD	8				EBIA9	PMA9	
65	UA1_TxD	EBIA8/RPF5/SCL5/PMA8/RF5*	Yes						PD0/RxIn	0	Rx	14	RxD	10				EBIA8	PMA8	
66	IIC1_SCL	AETXCLK/RPA14/SCL1/RA14*	Yes						PCS/A5/SCL	19	SCL	12	SCL	5						
67	IIC1_SDA	AETXEN/RPA15/SDA1/RA15*	Yes						PC4/A4/SDA	18	SDA	11	SDA	3						
68	GioD9	EBIA15/RPD9/PMCS2/PMA15/RD9*	Yes															EBIA15	PMA15	
69	GioD10	RPD10/SCK4/RD10*TestLED	Yes																	
70	GioD11	EMDC/AEMDC/RPD11/RD11*	Yes	EMDC	Ethernet Management Data Clock	o	No													
71	GioD0	EMDIO/AEMDIO/RPD0/RTCC/INT0/RD0*	Yes	EMDIO	Ethernet Management Data	io	Yes													
72	CLK_32KHz	SOSCI/RPC13/RC13																		
73	GioC14	SOSCO/RPC14/T1CK/RC14																		
76	SPI1_SCK	RPD1/SCK1/RD1*	Yes						PB5/SPI_SCK	13	SCK	4	SCK	23						
77	SPI1_MISO	EBID14/ETXEN/RPD2/PMD14/RD2*	Yes	EMXEN	Transmit Enable	o	Yes		PB4/SPI_MISO	12	MISO	5	MISO	21				EBID14	PMD14	
78	SPI1_MOSI	EBID15/ETXCLK/RPD3/PMD15/RD3*	Yes	ETXCLK	Transmit Clock	o	No		PB3/SPI_MOSI	11	MOSI	6	MOSI	19				EBID15	PMD15	
79	GioD12	EBID12/ETXD2/RPD12/PMD12/RD12*	Yes	ETXD2	Transmit Data 2	o	No				RST	2						EBID12	PMD12	
80	GioD13	EBID13/ETXD3/PMD13/RD13*	Yes	ETXD3	Transmit Data 3	o	No				CS	3						EBID13	PMD13	
81	SQI_CS0_n	SQICS0/RPD4/RD4*	Yes																	
82	GioD5	SQICS1/RPD5/RD5*	Yes								INT	15								
85	GioF0	EBID11/ETXD1/RPF0/PMD11/RF0*	Yes	ETXD1	Transmit Data 1	o	Yes											EBID11	PMD11	
86	GioF1	EBID10/ETXD0/RPF1/PMD10/RF1*	Yes	ETXD0	Transmit Data 0	o	Yes											EBID10	PMD10	
87	GioG1	EBID9/ETXERR/RPG1/PMD9/RG1*	Yes															EBID9	PMD9	
88	GioG0	EBID8/RPG0/PMD8/RG0*	Yes															EBID8	PMD8	
89	SQI_CLK	TRCLK/SQICLK/RA6*	Yes																	
90	SQI_D3	TRD3/SQID3/RA7*	Yes																	
91	GioE0	EBID0/PMD0/RE0*	Yes								PWM	16						EBID0	PMD0	
94	GioE1	EBID1/PMD1/RE1*	Yes															EBID1	PMD1	
95	SQI_D2	TRD2/SQID2/RG14*	Yes																	
96	SQI_D1	TRD1/SQID1/RG12*	Yes																	
97	SQI_D0	TRD0/SQID0/RG13*	Yes																	
98	GioE2	EBID2/PMD2/RE2*	Yes															EBID2	PMD2	
99	GioE3	EBID3/RPE3/PMD3/RE3*	Yes															EBID3	PMD3	
100	GioE4	EBID4/AN18/PMD4/RE4							PC4/Reset	X1								EBID4	PMD4	