

PIC24EP512GU814

AN	RP	+5V	Pin number	PORT	Special	Function
			1	RG15	RP127	Future_SPI1_SCK
			2	Vdd		3V3uC
			3	RE5	RP85/AN29	Future_SPI1_SDO
			4	RE6	RPI86/AN30	Future_SPI1_SDI
			5	RE7	RP87/AN31	Tx1_GPS and Future_Tx1_GPS
			6	RJ8	PMA8	Keypad_1
			7	RJ9	PMA9	Keypad_2
			8	RJ10	PMA10	Keypad_3
			9	RJ11	PMA11	Keypad_4
			10	RC1	AN16/RPI49	Rx1_GPS and Future_Rx1_GPS
			11	RC2	AN17/RPI50	Battery Voltage
			12	RC3	AN18/RPI51	Analogue1
			13	RC4	AN19/RPI52	Analogue2
			14	RJ12	PMA12	Keypad_5
			15	RJ13	PMA13	Keypad_6
			16	RG6	C1IN3-/SCK2/RP118	SPI2_SCK_SDcard
			17	RG7	C1IN1-/SDI2/RPI119	SPI2_SDI_SDcard
			18	RG8	C2IN3-/SDO2/RP120	SPI2_SDO_SDcard
			19	!MCLR		ICD-nMCLR
			20	RG9	C2IN1-/RPI121	Future_Comparator
			21	RJ14		Keypad_7
			22	RJ15		SDCard_Select
			23	Vss		Gnd
			24	Vdd		uC3V3D
			25	RA0	TMS/RPI16	Future_JTAG
			26	RE8	AN20/RPI88	Future_Analogue
			27	RE9	AN21/RPI89	Future_Analogue
			28	RK0		Future_Digital
			29	RK1		Buzzer
			30	RB5	AN5/C1In1+/VbusON/VbusST/RPI37	Future_USB
			31	RB4	AN4/C1IN2-/USBOEN/RPI36	Future_USB
			32	RB3	AN3/C2IN1+/VPIO/RPI35	Future_USB
			33	RB2	AN2/C2IN2-/VMIO/RPI34	Future_USB
			34	RB1	PGEC3/AN1/RPI33	ICD-PGC

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			35	RB0	PGED3/AN0/RPI32	IDC-PGD
			36	Vss		Gnd
			37	RB6	PGEC1/AN6/RPI38	Future_Analogue
			38	RB7	PGED1/AN7/RCV/RPI39	Future_USB
			39	RA9	VREF-	Future_Analogue
			40	RA10	VREF+	Future_Analogue
			41	Avdd		3V3Analogue
			42	Avss		Gnd
			43	RH0	PMD0	VNC1L_D0
			44	RH1	PMD1	VNC1L_D1
			45	RH2	PMD2	VNC1L_D2
			46	RH3	PMD3	VNC1L_D3
			47	RB8	AN8/RPI40	Future_Analogue
			48	RB9	AN9/RPI41	Flash_nWP
			49	RB10	AN10/CVref/RPI42	Flash_nReset
			50	RB11	AN11/RPI43	Flash_nCS
			51	Vss		Gnd
			52	Vdd		3V3uC
			53	RK15	PMRD	VNC1L_nRd
			54	RK14	PMWR	VNC1L_Wr
			55	RK13	PMBE	VNC1L_nTXE
			56	RA1	TCK/RPI17	Future_JTAG
			57	RF13	RP109	Rx3_RS485_1
			58	RF12	RP108	Tx3_RS485_1
			59	RB12	AN12/RPI44	Tx3Enable_RS485_1
			60	RB13	AN13/RPI45	Flash_S0
			61	RB14	AN14/RPI46	Flash_S1
			62	RB15	AN15/RPI47	Flash_S2
			63	Vss		Gnd
			64	Vdd		3V3uC
			65	RH4	PMD4	VNC1L_D4
			66	RH5	PMD5	VNC1L_D5
			67	RH6	PMD6	VNC1L_D6
			68	RH7	PMD7	VNC1L_D7
			69	RD14	RPI78	SPI3_SDI_Flash

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			70	RD15	RP79	SPI3_SDO_Flash
			71	RF4	SDA2/RP100	SPI3_SCK_Flash
			72	RF5	SCL2/RP101	VNC1L_nRXF
			73	Vss		Gnd
			74	RF3	USBID/RP99	Future_USB
			75	RF2	RP98	VNC1L_nReset
			76	RF8	RP104	Future_Digital
			77	Vbus		Future_USB
			78	Vusb3V3		Future_USB
			79	RG3	D-	Future_USB
			80	RG2	D+	Future_USB
			81	RH8		Digital1
			82	RH9		Digital2
			83	RH10		Digital3
			84	RH11		Digital4
			85	RA2	ASCL2/RPI18	Future_I2C-2
			86	RA3	ASDA2/RPI19	Future_I2C-2
			87	RA4	TDI/RPI20	Future_JTAG
			88	RA5	TDO/RP121	Future_JTAG
			89	Vdd		3V3uC
			90	RC12	OSC1/RPI60	OSC1_crystal
			91	RC15	OSC2/CLKO	OSC2_crystal
			92	Vss		Gnd
			93	RK12	PMCS1	Future_Digital
			94	RK11	PMCS2	Future_Digital
			95	RK14	RPI30	Future_Digital
			96	RK15	RPI31	Future_Digital
			97	RD8	RTCC/DMLN/RPI72	Future_USB
			98	RD9	ASDA1/DPLN/RPI73	Future_USB
			99	RD10	ASCL1/RPI74/RD10	Future_Digital
			100	RD11	RPI75	Future_Digital
			101	RH12		Future_Digital
			102	RH13		PowerLatch
			103	RH14		PowerSlaves
			104	RH15		Future_Digital
			105	RD0	INT0/DMH/RP64	Future_USB

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			106	RC13	PGED2/SOSCI/C3IN3-/RPI61	SOSCI_32.768kHz
			107	RC14	PGEC2/SOSCO/C3IN1-/T1CK/RPI62	SOSCO_32.768kHz
			108	Vss		Gnd
			109	RD1	Vcpcon/RP65	Future_USB
			110	RD2	DPH/RP66	Future_USB
			111	RD3	RP67	LCD_BackLight
			112	Vdd		3V3uC
			113	RD12	RPI76	LCD_nRd
			114	RD13	RPI77	LCD_nWr
			115	RJ0	PMA0	LCD_D0
			116	RJ1	PMA1	LCD_D1
			117	RJ2	PMA2	LCD_D2
			118	RJ3	PMA3	LCD_D3
			119	RD4	RP68	LCD_A0
			120	RD5	RP69	LCD_nCS
			121	RD6	C3IN2-/RP70	Future_Comparator
			122	RD7	C3IN1+/Vcmpst3/RP71	Future_USB
			123	Vcap		CoreCapacitor = 10uF, 6V3, LOW ESR
			124	Vdd		3V3uC
			125	Vss		Gnd
			126	RF0	Vcmpst1/RP96	Future_USB
			127	RF1	Vcmpst2/RP97	Future_USB
			128	RG1	RP113	Rx4_RS485_2
			129	RG0	RP112	Tx4_RS485_2
			130	RA6	AN22/RPI22	Tx4Enable_RS485_2
			131	RA7	AN23/RPI23	Future_Digital
			132	RJ4	PMA4	LCD_D4
			133	RJ5	PMA5	LCD_D5
			134	RJ6	PMA6	LCD_D6
			135	RJ7	PMA7	LCD_D7
			136	RE0	AN24/RP80	Tx2_FT232RQ
			137	RE1	AN25/RPI81	Rx2_FT232RQ
			138	RG14	RP126	LCD_nReset
			139	RG12	RPI124	LCD_Spare1
			140	RG13	RP125	LCD_Spare2

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				141	Vss		Gnd
				142	RE2	AN26/RP82	Future_SPI4_SCK
				143	RE3	AN27/RP183	Future_SPI4_SDI
				144	RE4	AN28/RP84	Future_SPI4_SDO