Teensy 4.1 Pin Usage on T41 v12

		Teensy 4.1 Pin Reference													
T41 v12 Pin Usage		·								T41 v12 Pin Usage					
Ground	GND					GND		VIN					VIN	5V Power	
ATtiny85 PB1/2	in	PWM	CRX2	CS1	RX1	0		GND					GND	Ground	
	out	PWM	PWM CTX2 MISO1 TX1		1		3.3V	/				3.3V to front panel			
	(1)	PWM	OUT2			2		23	A9	CRX1	MCLK1	PWM	MCLK	Audio Adapter	
(1)		PWM	LRCLK2			3		22	A8	CTX1		PWM	out	RXTX	
(1)		PWM	BCLK2			4		21	A7	RX5	BCLK1		BCLK	Audio Adapter	
		PWM	IN2			5		20	A6	TX5	LRCLK1		LRCLK	Audio Adapter	
ADC Out	12S RX (2)	PWM	OUT1D			6		19	A5		SCL	PWM	SCL	Audio Adapter/RF	
Audio Adapter	DIN	PWM	OUT1A	RX2		7		18	A4		SDA	PWM	SDA	Audio Adapter/RF	
Audio Adapter	DOUT	PWM	IN1	TX2		8		17	А3	TX4	SDA1		SDA1	5 I D I (6)	
NC	(4)	PWM	OUT1C			9	Те	16	A2	RX4	SCL1		SCL1	Front Panel (6)	
RA8875 CS	CS	PWM	MQSR	CS		10	ě	15	A1	RX3	SPDIF IN	PWM	INT	– Front Panel interrupt (7)	
RA8875 MOSI	MOSI	PWM	CTX1	MOSI		11	ens	14	A0	TX3	SPDIF OUT	PWM	INT		
RA8875 MISO	MISO	PWM	MQSL	MISO		12	~	13	LED	SCK		PWM	SCK	RA8875 SCLK	
NC						3.3V	4.	GND					GND	Ground	
LPF Ctrl/BPF	SCL2	PWM	SCL2	TX6	A10	24	1	41	A17				(8)		
	SDA2	PWM	SDA2	RX6	A11	25		40	A16				(0)		
Detected pwr analog	(5)			MOSI1	A12	26		39	A15	MISO1	OUT1A		(9)		
				SCK1	A13	27		38	A14	CS1	IN1		out	Calibration	
	(10)	PWM		RX7		28		37		CS		PWM	in	PTT	
	(10)	PWM		TX7		29		36		CS		PWM	INT	Keyer Tip/Ring	
	(10)		CRX3			30		35		TX8	· ·		INT	keyer rip/kirig	
			CTX3			31		34		RX8			out	TX mode SSB/CW	
DAC DIN	12S TX (3)		OUT1B			32		33			MCLK2	PWM	out	CW on/off	

Color Key	PWM	Digital Audio	Serial	Digital	Analog	I2C	SPI	CAN Bus	Power	
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NC = No Connection; INT = Interrupt; in/out = Digital input/output

- * Front Panel assumed. Some I2C functions might not be identified
- (1) Broken out to encoder connector. These are Vol/FT encoder pins w/o front panel.
- (2) For default I2S pin usage see https://www.pjrc.com/teensy/gui/?info=AudioInputI2SQuad Pin assignment is handled in AudioInputI2SQuad::begin See pg 869 of IMXRT1060 manual (https://www.pjrc.com/teensy/IMXRT1060RM_rev3.pdf)
- (3) For default I2S pin usage see https://www.pjrc.com/teensy/gui/?info=AudioOutputI2SQuad
 Pin 32 is AudioOutputI2SQuad TX ch 3+4 (I couldn't trace this assignment in the Teensy Audio library)
 See pg 516 of IMXRT1060 manual (https://www.pjrc.com/teensy/IMXRT1060RM_rev3.pdf)
- (4) This pin is assigned to RA8875_RESET in the T41 code but is is only used in the object construction.

 The RA8875 library notes "In some modules you can leave unconnected but check if it's needed!"

 It seems as that is what's been done on the T41.
- (5) Optional. Pins can be repurposed if unused.
- (6) These are Tune Encoder A/B without front panel.
- (7) These are Filter Encoder A/B without front panel.
- (8) These are broken out through J3 Acc conector on the main board.
- (9) Broken out to front panel, but not connected. This is Busy SM Button without front panel.
- (10) Broken out to bands connector. These are Filter 20m, Filter 15m, Filter 80m and Filter 40m in v11.