Prototype

IRemote Peripheral Wiring:

Name	EStick 2	PORT/PIN	Peripheral	PORT/PIN
WiFly UART-TX	TXD_BB	X4/9	WiFly RN-XV	DIN
WiFly UART-RX	RXD_BB	X4/10	WiFly RN-XV	DOUT
PWM-Out	TOUT/OLED_CS#	X4/8	FET/Diode	
IR-In	ACCEL_INT2/TX_ENABLE	X4/22	TSOP4838	OUT
SPI-SCK1	P0_7/SCK	X4/7	RFM12B 433MHz	SCK
SPI-MISO1	P0_8/MISO	X4/6	RFM12B 433MHz	FFIT/SDO
SPI-MOSI1	P0_9/MOSI	X4/5	RFM12B 433MHz	SDI
ISM-In	P2_2/GPIO	X4/14	RFM12B 433MHz	FSK/DATA/nFFS
SPI-SEL0	P0_25/ADC02	X4/15	RFM12B 433MHz	nSEL
SPI-SCK1	P0_7/SCK	X4/7	RFM12B 836MHz	SCK
SPI-MISO1	P0_8/MISO	X4/6	RFM12B 836MHz	FFIT/SDO
SPI-MOSI1	P0_9/MOSI	X4/5	RFM12B 836MHz	SDI
836-In	P0_22/RTS1	X4/21	RFM12B 836MHz	FSK/DATA/nFFS
SPI-SEL1	P0_26/GPIO/AD03	X4/20	RFM12B 836MHz	nSEL
LED 0	P1_29	ONBOARD	LED 0	
LED 1	P0_0/SDA1	X3/13	GREEN LED	
LED 2	P0_1/SCL1	X3/14	YELLOW LED	
LED 3	P0_10/MAT30/GPIO	X3/15	RED LED	
BUTTON 0	P2_4/GPIO	X3/19	BUTTON 0	
BUTTON 1	P2_5/GPIO	X3/20	BUTTON 1	
BUTTON 2	P2_10/Ext. Int	X3/21	BUTTON 2	

PCB:

UART_TX1	Net Name	LPC1758	PORT/PIN	Peripheral	PORT/PIN
UART_TX				•	
SPI_SICKO	-				-
SPI_MISOO	_				
SPI_MOSIO	-				
SP SEL2#	——————————————————————————————————————				
FLASH HLD# P1_29/MCOB2/PCAP1_1/MAT0_1 1/29	-				
FLASH WP# P2 10/EINTO/IMI	-				
SPI_SCK0	_				
SPI_MISO0 P0_17/CTSI/MISO0/MISO 0/17 RFM12B 433MHz FFIT/SDO SPI_MOSIO P0_18/DCDI/MOSI0/MOSI 0/18 RFM12B 433MHz SDI ISM_RX2 P0_10/TXD2/SDA2/MAT3_0 0/10 RFM12B 433MHz PSK/DATA/nFFS SPI_SEL0# P1_28/MCOA2/PCAP1_0/MAT0_0 1/28 RFM12B 433MHz NSEL ISM_DCLK2 P0_17/DI/RXD3/SCL1 0/1 RFM12B 433MHz DCLK/CFIL/FFIT ISM_INT2# P0_0/RD1/TXD3/SDA1 0/0 RFM12B 433MHz NINT ISM_INQ2# P0_11/RXD2/SCL2/MAT3_1 0/11 RFM12B 836MHz SCK SPI_MISO1 P0_8/I2STX_US/MISO1/MAT2_1 0/7 RFM12B 836MHz SCK SPI_MOSI1 P0_9/12STX_SDA/MOSIJ/MAT2_2 0/8 RFM12B 836MHz SCK SPI_MOSI1 P0_9/12STX_SDA/MOSIJ/MAT2_3 0/9 RFM12B 836MHz SDI ISM_ECK3 P0_26/ADD_2/I2SRX_SDA/TXD3 0/25 RFM12B 836MHz SSI ISM_DCLK3 P2_5/PWM1_6/DTR1/TRACEDATA_0 2/5 RFM12B 836MHz DCLK ISM_CLK3 P2_5/PWM1_5/DSR1/TRACEDATA_1		_			
SPI_MOSIO	_	_			
ISM_RX2	-				
SPI_SEL0#	-	_			
ISM_CLK2	-	_			
ISM_CLK2	-				
ISM_INT2#	_				
ISM_IRQ2# P0_11/RXD2/SCL2/MAT3_1 0/11 RFM12B 433MHz NIRQ	_	P0_0/RD1/TXD3/SDA1	0/0		
SPI_SCK1	_	_			
SPI_MISO1 P0_8/I2STX_WS/MISO1/MAT2_2 0/8 RFM12B 836MHz FFIT/SDO SPI_MOSI1 P0_9/I2STX_SDA/MOSI1/MAT2_3 0/9 RFM12B 836MHz SDI ISM_RX3 P0_25/AD0_2/I2SRX_SDA/TXD3 0/25 RFM12B 836MHz PSK/DATA/INFFS SPI_SEL1# P0_6/I2SRX_SDA/SSEL1/MAT2_0 0/6 RFM12B 836MHz DCLK ISM_DCLK3 P2_5/PWM1_6/DTR1/TRACEDATA_0 2/5 RFM12B 836MHz DCLK ISM_CLK3 RFM12B 836MHz DCLK DCLK ISM_INT3# P2_4/PWM1_5/DSR1/TRACEDATA_1 2/4 RFM12B 836MHz NIRT ISM_INT3# P2_4/PWM1_5/DSR1/TRACEDATA_1 2/4 RFM12B 836MHz NIRT ISM_INT3# P2_4/PWM1_5/DSR1/TRACEDATA_1 2/4 RFM12B 836MHz DCLK ISM_INT3# P2_4/PWM1_5/DSR1/TRACEDATA_1 2/4 RFM12B 836MHz DCLK ISM_INT3# P2_4/PWM1_5/DSR1/TRACEDATA_1 1/15 LED_DEBUG LED_DEBUG LED_DEBUG P1_10/ENET_RXD0 1/9 LED2 LED3 LED3 P1_8/ENET_CRS 1/8 LED3		-			
SPI_MOSI1 P0_9/!2STX_SDA/MOSI1/MAT_3 0/9 RFM12B 836MHz SDI ISM_RX3 P0_25/AD0_2/!ZSRX_SDA/TXD3 0/25 RFM12B 836MHz FSK/DATA/nFFS SPI_SEL1# P0_6/!2SRX_SDA/SSEL1/MAT2_0 0/6 RFM12B 836MHz NSEL ISM_DCLK3 P2_5/PWM1_6/DTR1/TRACEDATA_0 2/5 RFM12B 836MHz DCLK ISM_INT3# P2_4/PWM1_5/DSR1/TRACEDATA_1 2/4 RFM12B 836MHz NINT ISM_INQ3# P0_26/AD0_3/AOUT/RXD3 0/26 RFM12B 836MHz NINT ISM_IRQ3# P0_26/AD0_3/AOUT/RXD3 0/26 RFM12B 836MHz NINT ISM_DED_BUS P1_9/ENET_RXD0 1/9 LED LED LED_1 P1_9/ENET_RXD0 1/9 LED	-				
ISM_RX3	_				
SPI_SEL1# P0_6/I2SRX_SDA/SSEL1/MAT2_0 0/6 RFM12B 836MHz nSEL ISM_DCLK3 P2_5/PWM1_6/DTR1/TRACEDATA_0 2/5 RFM12B 836MHz DCLK ISM_CLK3 P2_4/PWM1_5/DSR1/TRACEDATA_1 2/4 RFM12B 836MHz NINT ISM_INT3# P2_4/PWM1_5/DSR1/TRACEDATA_1 2/4 RFM12B 836MHz NINT ISM_IRQ3# P0_26/AD0_3/AOUT/RXD3 0/26 RFM12B 836MHz NINT ISM_ED_BUTION P1_10/ENET_RXD0 1/10 LED1 LED1 LED2 LED_BUTG 1/10 LED2 LED2 LED3 LED2 LED3 LED4 LED7 LATCH LE LE BUTTON 0 BUTTON 0 BUTTON 1 BUTTON 1<	_				
ISM_DCLK3	-				
ISM_CLK3	-				
ISM_INT3#	-				
ISM_IRQ3#	-	P2 4/PWM1 5/DSR1/TRACEDATA 1	2/4		
LED_DEBUG P1_15/ENET_REF_CLK 1/15 LED_DEBUG LED1 P1_10/ENET_RXD1 1/10 LED1 LED2 P1_9/ENET_RXD0 1/9 LED2 LED3 P1_8/ENET_CRS 1/8 LED3 LED4 P1_4/ENET_TX_EN 1/4 LED4 LED_EN1 P4_29/TX_MCLK/MAT2_1/RXD3 4/29 Transistor LATCH_EN P1_14/ENET_RX_ER 1/14 LATCH LE BUTTON1 P2_6/PCAP1_0/RI1/TRACECLK 2/6 BUTTON 0 BUTTON2 P2_7/RD2/RTS1 2/7 BUTTON 1 BUTTON3 P2_8/TD2/TXD2/ENET_MDC 2/8 BUTTON 2 USB_D+ P0_29/USB_DPLUS 0/29 USB MicroB D+ USB_D- P0_30/USB_DMIN 0/30 USB MicroB D- USB_CON P2_9/USB_CONNECT/RXD2/ENET_MDIO 2/9 USB MicroB CON IR_TX P1_18/USB_UP_LED/PWM1_1/CAP1_0 1/18 FET/Diode IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0	_				
LED1 P1_10/ENET_RXD1 1/10 LED1 LED2 P1_9/ENET_RXD0 1/9 LED2 LED3 P1_8/ENET_CRS 1/8 LED3 LED4 P1_4/ENET_TX_EN 1/4 LED4 LED_EN1 P4_29/TX_MCLK/MAT2_1/RXD3 4/29 Transistor LATCH_EN P1_14/ENET_RX_ER 1/14 LATCH LE BUTTON1 P2_6/PCAP1_0/RI1/TRACECLK 2/6 BUTTON 0 BUTTON2 P2_7/RD2/RTS1 2/7 BUTTON 1 BUTTON3 P2_8/TD2/TXD2/ENET_MDC 2/8 BUTTON 2 USB_D+ P0_29/USB_DPLUS 0/29 USB MicroB D+ USB_D- P0_30/USB_DMIN 0/30 USB MicroB D- USB_CON P2_9/USB_CONNECT/RXD2/ENET_MDIO 2/9 USB MicroB CON IR_TX P1_18/USB_UP_LED/PWM1_1/CAP1_0 1/18 FET/Diode IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN1 P1_1/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1					
LED2 P1_9/ENET_RXD0 1/9 LED2 LED3 P1_8/ENET_CRS 1/8 LED3 LED4 P1_4/ENET_TX_EN 1/4 LED4 LED_EN1 P4_29/TX_MCLK/MAT2_1/RXD3 4/29 Transistor LATCH_EN P1_14/ENET_RX_ER 1/14 LATCH LE BUTTON1 P2_6/PCAP1_0/RI1/TRACECLK 2/6 BUTTON 0 BUTTON2 P2_7/RD2/RTS1 2/7 BUTTON 1 BUTTON3 P2_8/TD2/TXD2/ENET_MDC 2/8 BUTTON 2 USB_D+ P0_29/USB_DPLUS 0/29 USB MicroB D+ USB_D- P0_30/USB_DMIN 0/30 USB MicroB D- USB_CON P2_9/USB_CONNECT/RXD2/ENET_MDIO 2/9 USB MicroB CON IR_TX P1_18/USB_UP_LED/PWM1_1/CAP1_0 1/18 FET/Diode IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	-			——————————————————————————————————————	
LED3 P1_8/ENET_CRS 1/8 LED3 LED4 P1_4/ENET_TX_EN 1/4 LED4 LED_EN1 P4_29/TX_MCLK/MAT2_1/RXD3 4/29 Transistor LATCH_EN P1_14/ENET_RX_ER 1/14 LATCH LE BUTTON1 P2_6/PCAP1_0/RI1/TRACECLK 2/6 BUTTON 0 BUTTON2 P2_7/RD2/RTS1 2/7 BUTTON 1 BUTTON3 P2_8/TD2/TXD2/ENET_MDC 2/8 BUTTON 2 USB_D+ P0_29/USB_DPLUS 0/29 USB MicroB D+ USB_D- P0_30/USB_DMIN 0/30 USB MicroB D- USB_CON P2_9/USB_CONNECT/RXD2/ENET_MDIO 2/9 USB MicroB CON IR_TX P1_18/USB_UP_LED/PWM1_1/CAP1_0 1/18 FET/Diode IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN1 P1_1/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	LED2		1/9	LED2	
LED4 P1_4/ENET_TX_EN 1/4 LED4 LED_EN1 P4_29/TX_MCLK/MAT2_1/RXD3 4/29 Transistor LATCH_EN P1_14/ENET_RX_ER 1/14 LATCH LE BUTTON1 P2_6/PCAP1_0/RI1/TRACECLK 2/6 BUTTON 0 BUTTON2 P2_7/RD2/RTS1 2/7 BUTTON 1 BUTTON3 P2_8/TD2/TXD2/ENET_MDC 2/8 BUTTON 2 USB_D+ P0_29/USB_DPLUS 0/29 USB MicroB D+ USB_D- P0_30/USB_DMIN 0/30 USB MicroB D- USB_CON P2_9/USB_CONNECT/RXD2/ENET_MDIO 2/9 USB MicroB CON IR_TX P1_18/USB_UP_LED/PWM1_1/CAP1_0 1/18 FET/Diode IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_DETECT P0_3/RXD0/AD0_6 0/3 QSE159 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	LED3		1/8		
LED_EN1 P4_29/TX_MCLK/MAT2_1/RXD3 4/29 Transistor LATCH_EN P1_14/ENET_RX_ER 1/14 LATCH LE BUTTON1 P2_6/PCAP1_0/RI1/TRACECLK 2/6 BUTTON 0 BUTTON2 P2_7/RD2/RTS1 2/7 BUTTON 1 BUTTON3 P2_8/TD2/TXD2/ENET_MDC 2/8 BUTTON 2 USB_D+ P0_29/USB_DPLUS 0/29 USB MicroB D+ USB_D- P0_30/USB_DMIN 0/30 USB MicroB D- USB_CON P2_9/USB_CONNECT/RXD2/ENET_MDIO 2/9 USB MicroB CON IR_TX P1_18/USB_UP_LED/PWM1_1/CAP1_0 1/18 FET/Diode IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_DETECT P0_3/RXD0/AD0_6 0/3 QSE159 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	LED4		1/4	LED4	
LATCH_EN P1_14/ENET_RX_ER 1/14 LATCH LE BUTTON1 P2_6/PCAP1_0/RI1/TRACECLK 2/6 BUTTON 0 BUTTON2 P2_7/RD2/RTS1 2/7 BUTTON 1 BUTTON3 P2_8/TD2/TXD2/ENET_MDC 2/8 BUTTON 2 USB_D+ P0_29/USB_DPLUS 0/29 USB MicroB D+ USB_D- P0_30/USB_DMIN 0/30 USB MicroB D- USB_CON P2_9/USB_CONNECT/RXD2/ENET_MDIO 2/9 USB MicroB CON IR_TX P1_18/USB_UP_LED/PWM1_1/CAP1_0 1/18 FET/Diode IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_DETECT P0_3/RXD0/AD0_6 0/3 QSE159 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	LED_EN1		4/29	Transistor	
BUTTON1 P2_6/PCAP1_0/RI1/TRACECLK 2/6 BUTTON 0 BUTTON2 P2_7/RD2/RTS1 2/7 BUTTON 1 BUTTON3 P2_8/TD2/TXD2/ENET_MDC 2/8 BUTTON 2 USB_D+ P0_29/USB_DPLUS 0/29 USB MicroB D+ USB_D- P0_30/USB_DMIN 0/30 USB MicroB D- USB_CON P2_9/USB_CONNECT/RXD2/ENET_MDIO 2/9 USB MicroB CON IR_TX P1_18/USB_UP_LED/PWM1_1/CAP1_0 1/18 FET/Diode IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_DETECT P0_3/RXD0/AD0_6 0/3 QSE159 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT			1/14	LATCH	LE
BUTTON3 P2_8/TD2/TXD2/ENET_MDC 2/8 BUTTON 2 USB_D+ P0_29/USB_DPLUS 0/29 USB MicroB D+ USB_D- P0_30/USB_DMIN 0/30 USB MicroB D- USB_CON P2_9/USB_CONNECT/RXD2/ENET_MDIO 2/9 USB MicroB CON IR_TX P1_18/USB_UP_LED/PWM1_1/CAP1_0 1/18 FET/Diode IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_DETECT P0_3/RXD0/AD0_6 0/3 QSE159 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	BUTTON1		2/6	BUTTON 0	
USB_D+ P0_29/USB_DPLUS 0/29 USB MicroB D+ USB_D- P0_30/USB_DMIN 0/30 USB MicroB D- USB_CON P2_9/USB_CONNECT/RXD2/ENET_MDIO 2/9 USB MicroB CON IR_TX P1_18/USB_UP_LED/PWM1_1/CAP1_0 1/18 FET/Diode IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_DETECT P0_3/RXD0/AD0_6 0/3 QSE159 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	BUTTON2	P2_7/RD2/RTS1	2/7	BUTTON 1	
USB_D- P0_30/USB_DMIN 0/30 USB MicroB D- USB_CON P2_9/USB_CONNECT/RXD2/ENET_MDIO 2/9 USB MicroB CON IR_TX P1_18/USB_UP_LED/PWM1_1/CAP1_0 1/18 FET/Diode IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_DETECT P0_3/RXD0/AD0_6 0/3 QSE159 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	BUTTON3	P2_8/TD2/TXD2/ENET_MDC	2/8	BUTTON 2	
USB_CON P2_9/USB_CONNECT/RXD2/ENET_MDIO 2/9 USB MicroB CON IR_TX P1_18/USB_UP_LED/PWM1_1/CAP1_0 1/18 FET/Diode IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_DETECT P0_3/RXD0/AD0_6 0/3 QSE159 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	USB_D+	P0_29/USB_DPLUS	0/29	USB MicroB	D+
IR_TX P1_18/USB_UP_LED/PWM1_1/CAP1_0 1/18 FET/Diode IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_DETECT P0_3/RXD0/AD0_6 0/3 QSE159 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	USB_D-	P0_30/USB_DMIN	0/30	USB MicroB	D-
IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_DETECT P0_3/RXD0/AD0_6 0/3 QSE159 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	USB_CON	P2_9/USB_CONNECT/RXD2/ENET_MDIO	2/9	USB MicroB	CON
IR_RX P0_2/TXD0/AD0_7 0/2 TSOP34838 OUT IR_DETECT P0_3/RXD0/AD0_6 0/3 QSE159 OUT IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	IR_TX	P1_18/USB_UP_LED/PWM1_1/CAP1_0	1/18	FET/Diode	
IR_EN1 P1_1/ENET_TXD1 1/1 Transistor IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	IR_RX	P0_2/TXD0/AD0_7	0/2	TSOP34838	OUT
IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	IR_DETECT	P0_3/RXD0/AD0_6	0/3	QSE159	OUT
IR_EN2 P1_0/ENET_TXD0 1/0 Transistor ISM_RX1 P0_22/RTS1/TD1 0/22 AC-RX2 OUT	_	P1_1/ENET_TXD1	1/1		
	IR_EN2		1/0	Transistor	
ISM_EN1 P1_19/MCOA0/USB_PPWR/CAP1_1 1/19 Transistor	ISM_RX1	P0_22/RTS1/TD1	0/22	AC-RX2	OUT
	ISM_EN1	P1_19/MCOA0/USB_PPWR/CAP1_1	1/19	Transistor	