

Coastal Profiling Float Motherboard Pin Assignments						
P. McGill						
18-Apr-16						
Slot	1	2	3	4	5	6
Function	3 ch non-mux 232	3 ch non-mux 232	3 ch I2C 232	3 ch I2C 232	3 ch SPI/I2C mux a	3 ch SPI/I2C mux b
Pin						
A1	GND	GND	GND	GND	GND	GND
B1	CH1:PA9/COM1_RX	CH4:PA6/COM3_RX			CH13:PC5	CH13:PC5
C1	CH1:PA10/COM1_TX	CH4:PA5/COM3_TX			CH13:PC23	CH13:PC23
A2	CH1/CH4/CH13:PA28	CH1/CH4/CH13:PA28			CH1/CH4/CH13:PA28	CH1/CH4/CH13:PA28
B2	CH1/CH4/CH13:PC29	CH1/CH4/CH13:PC29			CH1/CH4/CH13:PC29	CH1/CH4/CH13:PC29
C2						
A3			CH7:PB7/NIRQ7	CH10:PB0/NIRQ10	CH13:PA27	CH13:PA27
B3	CH1:PC27/PWR1	CH4:PC26/PWR4	CH7:PC0/PWR7	CH10:PB6/PWR10	CH13:PD0/PWR13	CH13:PD0/PWR13
C3	CH1:PC14/NFLT1	CH4:PC31/NFLT4	CH7:PB2/NFLT7	CH10:PC7/NFLT10	CH13:PD4/NFLT13	CH13:PD4/NFLT13
A4	GND	GND	GND	GND	GND	GND
B4	CH2:PA1/COM2_RX	CH5:PC9/COM5_RX			CH14:PD3	CH14:PD3
C4	CH2:PA0/COM2_TX	CH5:PC8/COM5_TX			CH14:PD5	CH14:PD5
A5	CH2/CH5/CH14:PA2	CH2/CH5/CH14:PA2			CH2/CH5/CH14:PA2	CH2/CH5/CH14:PA2
B5	CH2/CH5/CH14:PA3	CH2/CH5/CH14:PA3			CH2/CH5/CH14:PA3	CH2/CH5/CH14:PA3
C5						
A6			CH8:PC12/NIRQ8	CH11:PC10/NIRQ11	CH14:PD1	CH14:PD1
B6	CH2:PC4/PWR2	CH5:PC13/PWR5	CH8:PB10/PWR8	CH11:PB18/PWR11	CH14:PC22/PWR14	CH14:PC22/PWR14
C6	CH2:PB4/NFLT2	CH5:PC15/NFLT5	CH8:PC24/NFLT8	CH11:PB8/NFLT11	CH14:PD2/NFLT14	CH14:PD2/NFLT14
A7	GND	GND	GND	GND	GND	GND
B7	CH3:PA8/COM4_RX	CH6:PC17/COM6_RX			PA21/SPI2_MISO	PA21/SPI2_MISO
C7	CH3:PA7/COM4_TX	CH6:PC16/COM6_TX			PA22/SPI2_MOSI	PA22/SPI2_MOSI
A8	CH3/CH6/CH15:PC28	CH3/CH6/CH15:PC28			CH3/CH6/CH15:PC28	CH3/CH6/CH15:PC28
B8	CH3/CH6/CH15:PD6	CH3/CH6/CH15:PD6			CH3/CH6/CH15:PD6	CH3/CH6/CH15:PD6
C8						
A9			CH9:PC11/NIRQ9	CH12:PB1/NIRQ12	PA23/SPI2_SCK	PA23/SPI2_SCK
B9	CH3:PB9/PWR3	CH6:PC3/PWR6	CH9:PB5/PWR9	CH12:PC1/PWR12	CH15:PA29/PWR15	CH15:PA29/PWR15
C9	CH3:PC30/NFLT3	CH6:PC6/NFLT6	CH9:PC2/NFLT9	CH12:PB3/NFLT12	CH15:PA26/NFLT15	CH15:PA26/NFLT15
A10	NRST_BUF	NRST_BUF	NRST_BUF	NRST_BUF	NRST_BUF	NRST_BUF
B10	SLT1:I2C_SDA	SLT2:I2C_SDA	SLT3:I2C_SDA	SLT4:I2C_SDA	SLT5:I2C_SDA	SLT6:I2C_SDA
C10	SLT1:I2C_SCL	SLT2:I2C_SCL	SLT3:I2C_SCL	SLT4:I2C_SCL	SLT5:I2C_SCL	SLT6:I2C_SCL
A11	GND	GND	GND	GND	GND	GND
B11	GND	GND	GND	GND	GND	GND
C11	GND	GND	GND	GND	GND	GND
A12	1.8V	1.8V	1.8V	1.8V	1.8V	1.8V
B12	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V
C12	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V
A13	GND	GND	GND	GND	GND	GND
B13	GND	GND	GND	GND	GND	GND
C13	GND	GND	GND	GND	GND	GND
A14	5V	5V	5V	5V	5V	5V
B14	5V	5V	5V	5V	5V	5V
C14	5V	5V	5V	5V	5V	5V
A15	GND	GND	GND	GND	GND	GND
B15	GND	GND	GND	GND	GND	GND
C15	GND	GND	GND	GND	GND	GND
A16	12V	12V	12V	12V	12V	12V
B16	12V	12V	12V	12V	12V	12V
C16	12V	12V	12V	12V	12V	12V
	Motherboard Only		Legend:			
	MB:PB11/I2C_ENA1		Power			
	MB:PB12/I2C_ENA2		Bus Fixed	29		
	MB:PB13/I2C_ENA3		Bus Assign Unique	36		
	MB:PB14/I2C_ENA4		Bus Assign Multi	26		
	MB:PB15/I2C_ENA5		Motherboard Only	11		
	MB:PB16/I2C_ENA6		Changed from v12			
	MB:PB17/5V_PWR					
	MB:PC18/12V_PWR					
	MB:PC19/PMP_PWR					
	MB:PC20/NPMP_FLT					
	MB:PC21/DEBUG_LED					