

MCU module (2 x 20-pin)				Status: Mandatory	
A	Dir		B	Dir	
1	GND		2	GND	
3	UART_RX	Shared UART RX	4	UART_TX	○ Shared UART TX
5	+VAUX	I/O Backup DC power	6	NRESET	○ Master reset (active low)
7	+3V3	○ DC power	8	NFAULT	Fault (active low)
9	CH3_IRQ	#3 IRQ	10	SYNC	○ Sync output
11	CH3_CSA	○ #3 Chip select A	12	SSCL	○ Shared I ² C SCL
13	CH3_CSB	○ #3 Chip select B	14	SSDA	I/O Shared I ² C SDA
15	GND		16	GND	
17	CH3_SCLK	○ #3 SPI CLK	18	CH3_MISO	#3 MISO
19	CH2_IRQ	#2 IRQ	20	CH3_MOSI	○ #3 MOSI
21	CH2_CSB	○ #2 Chip select B	22	CH2_CSA	○ #2 Chip select A
23	CH2_SCLK	○ #2 SPI CLK	24	CH2_MISO	#2 MISO
25	CH1_IRQ	#1 IRQ	26	CH2_MOSI	○ #2 MOSI
27	CH1_CSB	○ #1 Chip select B	28	CH1_CSA	○ #1 Chip select A
29	GND		30	GND	
31	CH1_MISO	#1 MISO	32	CH1_SCLK	○ #1 SPI CLK
33	CH1_MOSI	○ #1 MOSI	34	GND	
35	+5V	DC power	36	+5V	DC power
37	+12V	DC power	38	+12V	DC power
39	GND		40	GND	

Peripheral modules (2 x 14-pin)				Status: Mandatory	
A	Dir		B	Dir	
1	+3V3	DC power	2	+VAUX	Backup DC power
3	NFAULT	I/O Fault (active low)	4	NRESET	Master reset (active low)
5	SSCL	Shared I ² C SCL	6	SYNC	Sync input
7	GND		8	SSDA	I/O Shared I ² C SDA
9	CSA	Module Chip select A	10	IRQ	○ Module IRQ
11	GND		12	CSB	Module Chip select B
13	SCLK	Module SPI CLK	14	MISO	○ Module MISO
15	MOSI	Module MOSI	16	GND	
17	A0	I ² C Address 0	18	A2	I ² C Address 2
19	A1	I ² C Address 1	20	GND	
21	+12V	DC power	22	+12V	DC power
23	+5V	DC power	24	+5V	DC power
25	GND		26	BOOT	Module bootloader select

Status: Optional*					
27	UART_TX	○ Shared UART TX	28	UART_RX	Shared UART RX

AUX PS module (2 x 8-pin)				Status: Recommended	
A	Dir		B	Dir	
1	PE		2	MBOOT	○ Master bootloader select
3	+12V	○ DC power	4	+12V	○ DC power
5	+5V	○ DC power	6	+5V	○ DC power
7	GND		8	GND	
9	GND		10	+VAUX	I/O Backup DC power
11	PWR_SSTART	AC soft-start	12	PWR_DIRECT	AC power on
13	SSCL	Shared I ² C SCL	14	SSDA	I/O Shared I ² C SDA
15	NFAULT	I/O Fault (active low)	16	+3V3	DC power

Power source module (2 x 10-pin)				Status: Optional	
A	Dir		B	Dir	
1	IN+	Power positive input	2	IN+	Power positive input
3	IN+	Power positive input	4	IN+	Power positive input
5	IN+	Power positive input	6	OUT+	○ Power positive output
7	OUT+	○ Power positive output	8	OUT+	○ Power positive output
9	OUT+	○ Power positive output	10	OUT+	○ Power positive output
11	OUT-	○ Power negative output	12	OUT-	○ Power negative output
13	OUT-	○ Power negative output	14	OUT-	○ Power negative output
15	OUT-	○ Power negative output	16	IN-	Power negative input
17	IN-	Power negative input	18	IN-	Power negative input
19	IN-	Power negative input	20	IN-	Power negative input

*) The first 26-pin of peripheral module connector is mandatory and last two pin are optional. New versions of DIB specification could introduce even more features but that will require also introduction of larger MCU connector or additional connector for the MCU