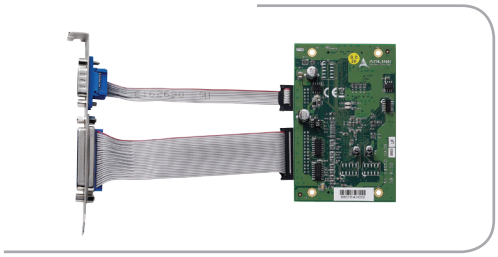
DB-8150

High-speed Triggering Daughter Board



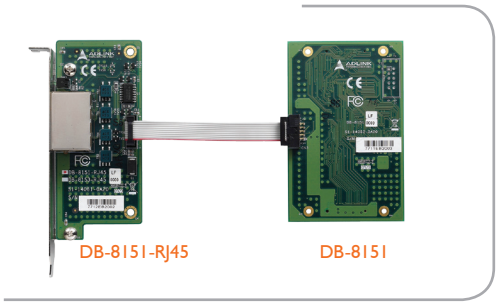
Specifications

- FPGA on-board to process the trigger function without consuming CPU resources
- Max. Trigger Pulse Frequency Up to 1 MHz
- FIFO Capacity: 2 M x 32-bit
- Max. Encoder Input Frequency: 6.5 MHz under 4xAB mode, @ 1.5 meter cable
- Dimension: 96.42 x 62 (L x W) mm (3.76" x 2.41")
- Operating Temperature: 0˚C to +60˚C (32˚F to 140˚F)
- Storage Temperature: -20˚C to +80˚C (-4˚F to 176˚F)
- Power Consumption: +3.3 V @ 250 mA typical, +5 V @ 100 mA typical

Connections					
PIN No.	Name	Function (Axis)	PIN No.	Name	Function (Axis)
1	CMP0+	Compare output+	14	CMP0-	Compare output-
2	CMP1+	Compare output+	15	CMP1-	Compare output-
3	CMP2+	Compare output+	16	CMP2-	Compare output-
4	CMP3+	Compare output+	17	CMP3-	Compare output-
5	CMP4+	Compare output+	18	CMP4-	Compare output-
6	CMP5+	Compare output+	19	CMP5-	Compare output-
7	CMP6+	Compare output+	20	CMP6-	Compare output-
8	CMP7+	Compare output+	21	CMP7-	Compare output-
9	EGND	Ext. Ground	22	EGND	Ext. Ground
10	DO	Open collectoroutput	23	DO_COM	Output COM
11	EXGND	Ext. Ground	24	EXGND	Ext. Ground
12	DI_0	Digital Input Ch_0	25	DI_1	Digital Input Ch_1
13	N/A	Empty	26	N/A	Empty

DB-8151

Single HSL Master Controller Daughter Board



Specifications

- Full duplex, RS-485 with transformer isolation
- Transmission Speed: 3/6/12 Mbps
- Dimension: 96.42 x 62 (L x W) mm (3.76" x 2.41")
- Operating Temperature: 0˚C to +60˚C (32˚F to 140˚F)
- Storage Temperature: -20˚C to +80˚C (-4˚F to 176˚F)
- Power Consumption: +3.3 V @ 250 mA, +5 V @ 100 mA typical

Connections	
PIN NO.	PIN OUT
PIN 1	+5V
PIN 2	FG
PIN 3	DG
PIN 4	LED Signal
PIN 5	RXD1
PIN 6	TXD
PIN 7	RXD2
PIN 8	TXE
PIN 9	DG
PIN 10	FG

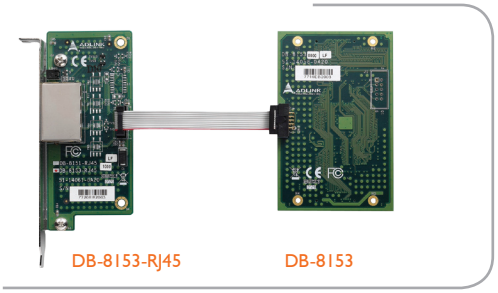
CN3: Main DB-8151 connector

Connections	
PIN NO.	PIN OUT
PIN 1	NC
PIN 2	NC
PIN 3	RX+
PIN 4	TX-
PIN 5	TX+
PIN 6	RX-
PIN 7	NC
PIN 8	NC

RJ1: DB-8151-RJ45 RJ-45 connector

DB-8153

Single Motionnet Master Controller Daughter Board



Specifications

- Half duplex, RS-485 with transformer isolation
- Transmission Speed: 2.5/5/10/20 Mbps (Default: 20 Mbps)
- Dimension: 96.42 x 62 (L x W) mm (3.76" x 2.41")
- Operating Temperature: 0˚C to +60˚C (32˚F to 140˚F)
- Storage Temperature: -20˚C to +80˚C (-4˚F to 176˚F)
- Power Consumption: +3.3 V @ 250 mA typical, +5 V @ 100 mA typical

Connections	
CN3: Main DB-8153 connector	
PIN NO.	PIN OUT
PIN 1	+5 V
PIN 2	FG
PIN 3	DG
PIN 4	LED Signal
PIN 5	RXD1
PIN 6	TXD
PIN 7	RXD2
PIN 8	TXE
PIN 9	DG
PIN 10	FG

Connections	
RJ1: DB-8153-RJ45 RJ-45 connector	
PIN NO.	PIN OUT
PIN 1	NC
PIN 2	NC
PIN 3	NC
PIN 4	Data-
PIN 5	Data+
PIN 6	NC
PIN 7	NC
PIN 8	NC

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