

7.2 Breakout Box for X1 and X2

Depending on the device variant several interfaces are connected to the connectors X1 and X2 of the FRC-EP170. HMS Industrial Networks offers a breakout box to provide each of the interfaces on one dedicated connector. To use the breakout box with connector X2 of the FRC-EP170, use the gender changer that is offered by HMS Industrial Networks.



Fig. 7 Breakout box

Pin Allocation Breakout Box for X2 (with Gender Changer)

Connector	Variant	Pin Allocation D-Sub 9	
		Pin	Signal
Y1	FlexRay-1A	2	FR BM or CAN L
		7	FR BP or CAN H
		3	GND
		6	GND
Y2	FlexRay-1B/2A		See Y1
Y3	CAN 3		See Y1
Y4	CAN 4		See Y1
Y5	Digital-I/O	1, 2, 4, 5	DIG_IO 1..4
		3	GND

Pin Allocation Breakout Box for X1

Connector	Variant	Pin Allocation D-Sub 9	
		Pin	Signal
Y1	CAN 1	2	CAN L
		7	CAN H
		3	GND
		6	GND
Y2	CAN 2		See Y1
Y3	Not used	—	—
Y4	CAN 5		See Y1
Y5	CAN 6	3	GND
		4	CAN FD H
		9	CAN FD L