

Trio Motion Technology Ltd.
Shannon Way, Tewkesbury,
Gloucestershire. GL20 8ND
United Kingdom
Tel: +44 (0)1684 292 333
Fax: +44 (0)1684 297 929

1000 Gamma Drive
Suite 206
Pittsburgh, PA 15238
United States of America
Tel: +1 412 968 9744
Fax: +1 412 968 9746

B1602 Tomson Centre
188 Zhang Yang Rd.,
Pudong New Area, Shanghai,
Postal code: 200122
CHINA
Tel/Fax: +86 21 587 97659



Doc No.: AN-253

Version: 1.0

Date: 13 April 2010

Subject: Euro209 / Euro205X connection differences

APPLICATION NOTE

1. Introduction

The Euro209, though not fully pin compatible with the Euro205X has been designed with some compatibility. For example, power and IO pins share the same pattern in both controllers. This document shows the pins that have the same function and those that are different between 209 and 205x.

2. Pin connection diagram - Euro209

Euro205x

	C	B	A
1	5V	5V	5V
2	5V	5V	5V
3	0V	0V	0V
4	IO 0V	OP13	OP10
5	OP9	OP12	OP15
6	OP8	OP11	OP14
7	IO 24V	IN0 / R0	IN1 / R1
8	IN2 / R2	IN3 / R3	IN4
9	IN5	IN6	IN7
10	IN8	IN9	IN10
11	IN11	IN12	IN13
12	IN14	0V	IN15
13	0V	DIR2 (OC)	0V
14	STEP1 (OC)	STEP2 (OC)	DIR3 (OC)
15	DIR0 (OC)	DIR1 (OC)	STEP3 (OC)

Euro209

	C	B	A
1	5V	5V	5V
2	5V	5V	5V
3	0V	0V	0V
4	IO 0V	OP13	OP10
5	OP9	OP12	OP15
6	OP8	OP11	OP14
7	IO 24V	IN0 / R0	IN1 / R1
8	IN2 / R2	IN3 / R3	IN4 / R4
9	IN5 / R5	IN6 / R6	IN7 / R7
10	IN8	IN9	IN10
11	IN11	IN12	IN13
12	IN14	0V	IN15
13	A7-	B7-	Z7-
14	A7+	B7+	Z7+
15	A6-	B6-	Z6-

16	STEP0 (OC)	FAULT OUT	RESET IN
17	ENABLE 1	ENABLE OC	Ain(0)
18	Boost1	Boost0	ENABLE2
19	Boost3	Boost2	Z3-
20	A3-	B3-	Z3+
21	A3+	B3+	Z2-
22	A2-	B2-	Z2+
23	A2+	B2+	Z1-
24	A1-	B1-	Z1+
25	A1+	B1+	Z0-
26	A0-	B0-	Z0+
27	A0+	B0+	Vout0
28	Vout3	Vout2	Vout1
29	+12V	+12V	+12V
30	Analog 0V	Analog 0V	Analog 0V
31	-12V	-12V	-12V
32	Shield	Shield	Shield

16	A6+	B6+	Z6+
17	A5-	B5-	Z5-
18	A5+	B5+	Z5+
19	A4-	B4-	Z4-
20	A4+	B4+	Z4+
21	A3-	B3-	Z3-
22	A3+	B3+	Z3+
23	A2-	B2-	Z2-
24	A2+	B2+	Z2+
25	A1-	B1-	Z1-
26	A1+	B1+	Z1+
27	A0-	B0-	Z0-
28	A0+	B0+	Z0+
29	Vout7	Vout6	Vout5
30	Analog 0V	Vout4	Vout3
31	Vout2	Vout1	Vout0
32	ENABLE1	ENABLE2	Shield

2.1. Notes

Green shaded pins have the same function.

Yellow shaded pins share the same function, but have additional function in the Euro209.

Grey shaded pins have different function.

All An+ and An- pins share with STEPn+ and STEPn-

All Bn+ and Bn- pins share with DIRn+ and DIRn-

All Zn+ and Zn- pins share with BOOSTn+ and BOOSTn-