

OP4520 Pin Assignments

- [DB37 Pin Assignments](#)
- [DB9 Pin Assignments](#)

Before designing cables, OPAL-RT recommends using these guidelines: [Simulator EMC cable recommendations](#)

The following tables provide the generic pin assignments for the OP4520's DB37 and DB9 connectors. More detailed information can be found in the System Integration document provided with your order.

DB37 Pin Assignments

DB37 pin	Channel pin assignment	DB37 pin	Channel pin assignment
1	+00	20	-00
2	+01	21	-01
3	+02	22	-02
4	+03	23	-03
5	+04	24	-04
6	+05	25	-05
7	+06	26	-06
8	+07	27	-07
9	+08	28	-08
10	+09	29	-09
11	+10	30	-10
12	+11	31	-11
13	+12	32	-12
14	+13	33	-13
15	+14	34	-14
16	+15	35	-15
17	+12V*	36	DGND
18	Vuser	37	Vrtn
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* Non-isolated, limited to 400mA

DB9 Pin Assignments

DB9F Pin	RS422 OUT CH 00-02	DB9F Pin	RS422 IN CH00-02
1	TX0+	1	RX0+
2	TX1+	2	RX1+
3	TX2+	3	RX2+

4	N.C	4	N.C
5	+12V limited *	5	+12V limited *
6	TX0-	6	RX0-
7	TX1-	7	RX1-
8	TX2-	8	RX2-
9	DGND	9	DGND
DB9F Pin	RS422 OUT CH 03-05	DB9F Pin	RS422 IN CH03-05
1	TX3+	1	RX3+
2	TX4+	2	RX4+
3	TX5+	3	RX5+
4	N.C	4	N.C
5	+12V limited *	5	+12V limited *
6	TX3-	6	RX3-
7	TX4-	7	RX4-
8	TX5-	8	RX5-
9	DGND	9	DGND

