

ECONseries
Screw Terminal and
Connector Pin Assignments

DT9810 Screw Terminal Assignments

Table 1 lists the screw terminal assignments for the DT9810 module.

Table 1: DT9810 Screw Terminals

Screw Terminal	Signal	Screw Terminal	Signal
20	USB +5 V Out	40	Reserved
19	Ground	39	Reserved
18	Counter 0 In	38	Ground
17	Counter 0 Out	37	Digital I/O 15
16	Counter 0 Gate	36	Digital I/O 14
15	Ground	35	Digital I/O 13
14	Digital I/O 19	34	Digital I/O 12
13	Digital I/O 18	33	Digital I/O 11
12	Digital I/O 17	32	Digital I/O 10
11	Digital I/O 16	31	Digital I/O 9
10	2.44 V Reference	30	Digital I/O 8
9	Analog Ground	29	Ground
8	Analog Input CH7	28	Digital I/O 7
7	Analog Input CH6	27	Digital I/O 6
6	Analog Input CH5	26	Digital I/O 5
5	Analog Input CH4	25	Digital I/O 4
4	Analog Input CH3	24	Digital I/O 3

Table 1: DT9810 Screw Terminals (cont.)

Screw Terminal	Signal	Screw Terminal	Signal
3	Analog Input CH2	23	Digital I/O 2
2	Analog Input CH1	22	Digital I/O 1
1	Analog Input CH0	21	Digital I/O 0

DT9812-2.5V and DT9812-10V Screw Terminal Assignments

Table 1 lists the screw terminals for the DT9812-2.5V and DT9812-10V modules.

**Table 2: DT9812-2.5V and DT9812-10V
Screw Terminal Assignments**

Screw Terminal	Signal	Screw Terminal	Signal
20	USB +5 V Out	40	Ext Trigger
19	Ground	39	Ext Clock
18	Counter 0 In	38	Ground
17	Counter 0 Out	37	Digital Output 7
16	Counter 0 Gate	36	Digital Output 6
15	Ground	35	Digital Output 5
14	DAC 1	34	Digital Output 4
13	DAC 1 Return	33	Digital Output 3
12	DAC 0	32	Digital Output 2
11	DAC 0 Return	31	Digital Output 1
10	2.5 V Reference ^a	30	Digital Output 0
9	Analog Ground	29	Ground
8	Analog Input CH7	28	Digital Input 7
7	Analog Input CH6	27	Digital Input 6
6	Analog Input CH5	26	Digital Input 5
5	Analog Input CH4	25	Digital Input 4
4	Analog Input CH3	24	Digital Input 3

**Table 2: DT9812-2.5V and DT9812-10V
Screw Terminal Assignments**

Screw Terminal	Signal	Screw Terminal	Signal
3	Analog Input CH2	23	Digital Input 2
2	Analog Input CH1	22	Digital Input 1
1	Analog Input CH0	21	Digital Input 0

a. For the DT9812-2.5V module, this reference is 2.44 V.

DT9812-10V-OEM Connector Pin Assignments

Table 3 lists the pin assignments for the Analog I/O connector on the DT9812-10V-OEM module. Table 4 lists the pin assignments for the Digital I/O connector on the DT9812-10V-OEM module.

Table 3: Analog I/O Connector Pin Assignments on the DT9812-10V-OEM Module

Pin	Signal	Pin	Signal
20	USB +5 V Out	19	Ground
18	Counter 0 In	17	Counter 0 Out
16	Counter 0 Gate	15	Ground
14	DAC 1	13	DAC 1 Return
12	DAC 0	11	DAC 0 Return
10	2.5 V Reference	9	Analog Ground
8	Analog Input CH7	7	Analog Input CH6
6	Analog Input CH5	5	Analog Input CH4
4	Analog Input CH3	3	Analog Input CH2
2	Analog Input CH1	1	Analog Input CH0

**Table 4: Digital I/O Connector Pin Assignments
on the DT9812-10V-OEM Module**

Pin	Signal	Pin	Signal
20	Ext Trigger	19	Ext Clock
18	Ground	17	Digital Output 7
16	Digital Output 6	15	Digital Output 5
14	Digital Output 4	13	Digital Output 3
12	Digital Output 2	11	Digital Output 1
10	Digital Output 0	9	Ground
8	Digital Input 7	7	Digital Input 6
6	Digital Input 5	5	Digital Input 4
4	Digital Input 3	3	Digital Input 2
2	Digital Input 1	1	Digital Input 0

DT9813-10V Screw Terminal Assignments

Table 5 lists the screw terminals for the DT9813-10V module.

Table 5: DT9813-10V Screw Terminal Assignments

Screw Terminal	Signal	Screw Terminal	Signal
20	USB +5 V Out	40	Ext Trigger
19	Ground	39	Ext Clock
18	Counter 0 In	38	Ground
17	Counter 0 Out	37	Digital Input 3
16	Counter 0 Gate	36	Digital Input 2
15	Ground	35	Digital Input 1
14	DAC 1	34	Digital Input 0
13	DAC 1 Return	33	Digital Output 3
12	DAC 0	32	Digital Output 2
11	DAC 0 Return	31	Digital Output 1
10	2.5 V Reference	30	Digital Output 0
9	Analog Ground	29	Ground
8	Analog Input CH7	28	Analog Input CH15
7	Analog Input CH6	27	Analog Input CH14
6	Analog Input CH5	26	Analog Input CH13
5	Analog Input CH4	25	Analog Input CH12
4	Analog Input CH3	24	Analog Input CH11

Table 5: DT9813-10V Screw Terminal Assignments (cont.)

Screw Terminal	Signal	Screw Terminal	Signal
3	Analog Input CH2	23	Analog Input CH10
2	Analog Input CH1	22	Analog Input CH9
1	Analog Input CH0	21	Analog Input CH8

DT9814-10V Screw Terminal Assignments

Table 6 lists the screw terminals for the DT9814-10V module.

Table 6: DT9814-10V Screw Terminal Assignments

Screw Terminal	Signal	Screw Terminal	Signal
20	USB +5 V Out	40	Ext Trigger
19	Ground	39	Ext Clock
18	Counter 0 In	38	Ground
17	Counter 0 Out	37	Analog Input CH23
16	Counter 0 Gate	36	Analog Input CH22
15	Ground	35	Analog Input CH21
14	DAC 1	34	Analog Input CH20
13	DAC 1 Return	33	Analog Input CH19
12	DAC 0	32	Analog Input CH18
11	DAC 0 Return	31	Analog Input CH17
10	2.5 V Reference	30	Analog Input CH16
9	Analog Ground	29	Ground
8	Analog Input CH7	28	Analog Input CH15
7	Analog Input CH6	27	Analog Input CH14
6	Analog Input CH5	26	Analog Input CH13
5	Analog Input CH4	25	Analog Input CH12
4	Analog Input CH3	24	Analog Input CH11

Table 6: DT9814-10V Screw Terminal Assignments (cont.)

Screw Terminal	Signal	Screw Terminal	Signal
3	Analog Input CH2	23	Analog Input CH10
2	Analog Input CH1	22	Analog Input CH9
1	Analog Input CH0	21	Analog Input CH8

DT9816 Screw Terminal Assignments

Table 1 lists the screw terminal assignments for the DT9816 module.

Table 7: DT9816 Screw Terminal Assignments

Screw Terminal	Signal	Screw Terminal	Signal
20	USB +5 V Out	40	Ext Trigger
19	Ground	39	Ext Clock
18	Counter 0 In	38	Ground
17	Counter 0 Out	37	Digital Output 7
16	Counter 0 Gate	36	Digital Output 6
15	Ground	35	Digital Output 5
14	Reserved	34	Digital Output 4
13	Reserved	33	Digital Output 3
12	Reserved	32	Digital Output 2
11	Reserved	31	Digital Output 1
10	2.5 V Reference	30	Digital Output 0
9	Analog Ground	29	Ground
8	Reserved	28	Digital Input 7
7	Reserved	27	Digital Input 6
6	Analog Input CH5	26	Digital Input 5
5	Analog Input CH4	25	Digital Input 4
4	Analog Input CH3	24	Digital Input 3

Table 7: DT9816 Screw Terminal Assignments (cont.)

Screw Terminal	Signal	Screw Terminal	Signal
3	Analog Input CH2	23	Digital Input 2
2	Analog Input CH1	22	Digital Input 1
1	Analog Input CH0	21	Digital Input 0

DT9817 and DT9817-H Screw Terminal Assignments

Table 8 lists the screw terminal assignments for the DT9817 and DT9817-H modules.

Table 8: DT9817 and DT9817-H Screw Terminals

Screw Terminal	Signal	Screw Terminal	Signal
20	USB +5 V Out	40	Reserved
19	Ground	39	Reserved
18	Counter 0 In	38	Ground
17	Counter 0 Out	37	Digital I/O 15
16	Counter 0 Gate	36	Digital I/O 14
15	Ground	35	Digital I/O 13
14	Digital I/O 27	34	Digital I/O 12
13	Digital I/O 26	33	Digital I/O 11
12	Digital I/O 25	32	Digital I/O 10
11	Digital I/O 24	31	Digital I/O 9
10	Reserved	30	Digital I/O 8
9	Ground	29	Ground
8	Digital I/O 23	28	Digital I/O 7
7	Digital I/O 22	27	Digital I/O 6
6	Digital I/O 21	26	Digital I/O 5
5	Digital I/O 20	25	Digital I/O 4
4	Digital I/O 19	24	Digital I/O 3

Table 8: DT9817 and DT9817-H Screw Terminals (cont.)

Screw Terminal	Signal	Screw Terminal	Signal
3	Digital I/O 18	23	Digital I/O 2
2	Digital I/O 17	22	Digital I/O 1
1	Digital I/O 16	21	Digital I/O 0

DT9817-R Screw Terminal Assignments

Table 9 lists the screw terminal assignments for the DT9817-R module.

Table 9: DT9817-R Screw Terminals

Screw Terminal	Signal	Screw Terminal	Signal
20	+5 V Out @ 10mA isolated	40	Reserved
19	Isolated Ground	39	Counter 0 Out
18	Counter 0 In	38	Isolated Ground
17	Counter 0 Gate	37	Reserved
16	Digital In 7 Low	36	Digital Out 7 Low
15	Digital In 7 High	35	Digital Out 7 High
14	Digital In 6 Low	34	Digital Out 6 Low
13	Digital In 6 High	33	Digital Out 6 High
12	Digital In 5 Low	32	Digital Out 5 Low
11	Digital In 5 High	31	Digital Out 5 High
10	Digital In 4 Low	30	Digital Out 4 Low
9	Digital In 4 High	29	Digital Out 4 High
8	Digital In 3 Low	28	Digital Out 3 Low
7	Digital In 3 High	27	Digital Out 3 High
6	Digital In 2 Low	26	Digital Out 2 Low
5	Digital In 2 High	25	Digital Out 2 High
4	Digital In 1 Low	24	Digital Out 1 Low

Table 9: DT9817-R Screw Terminals (cont.)

Screw Terminal	Signal	Screw Terminal	Signal
3	Digital In 1 High	23	Digital Out 1 High
2	Digital In 0 Low	22	Digital Out 0 Low
1	Digital In 0 High	21	Digital Out 0 High

