Integrity Instruments

http://www.integrityusa.com

DB25TSF

DB25TSM

DB15TSM

DB25TS-U

DB15TS-U

DIGITAL & ANALOG I/O TERMINAL STRIPS GENERIC DB25TSF DB25TSM DB15TSM CUSTOM DB25TS-U DB15TS-U

DB25TSM   GENERIC

The **DB25TSM** terminal strip with DB25 male connector has nomenclature corresponding to the DB25 pin numbers, and mates directly to the Digital I/O port of all of the Integrity Instruments M2, M3 and M4 series of Data Acquisition modules. It is shipped with hardware to attach permanently to the module.

The **DB25TSM** provides for easy access to the Digital I/O of our M2, M3, and M4 series modules as well as to all the other power, ground and other voltages available.

The tables below list the I/O connection and the signals available at the Digital I/O point of the data acquisition modules.

All connections for both the M2, M3, and M4 series are identical, except of course that the M2 series only has 8 digital I/O points.

Digital I/O M2 Series	
DB25 Pins	**Description**
1	Port 2 Bit 0
2	Port 2 Bit 1
3	Port 2 Bit 2
4	Port 2 Bit 3
5	Port 2 Bit 4
6	Port 2 Bit 5
7	Port 2 Bit 6
8	Port 2 Bit 7
9	PWM output
10	N/A
11	+V_Unreg
12	+5Vdc
13	GND
14	N/A
15	N/A
16	N/A
17	N/A
18	N/A
19	N/A
20	N/A
21	N/A
22	Pulse Counter Input
23	N/A
24	+5Vdc
25	GND

Digital I/O M3 and M4 Series	
DB25 Pins	**Description**
1	Port 2 Bit 0
2	Port 2 Bit 1
3	Port 2 Bit 2
4	Port 2 Bit 3
5	Port 2 Bit 4
6	Port 2 Bit 5
7	Port 2 Bit 6
8	Port 2 Bit 7
9	PWM output
10	N/A
11	+V_Unreg
12	+5Vdc
13	GND
14	Port 1 Bit 0
15	Port 1 Bit 1
16	Port 1 Bit 2
17	Port 1 Bit 3
18	Port 1 Bit 4
19	Port 1 Bit 5
20	Port 1 Bit 6
21	Port 1 Bit 7
22	Pulse Counter Input
23	-5Vdc
24	+5Vdc
25	GND

DB25TSF   GENERIC

The **DB25TSF** terminal strip with DB25 female connector has nomenclature corresponding to the DB25 pin numbers and is a general purpose DB25 to terminal strip device

It can be used with Integrity Instruments I/O expander boards, **EXP-TRK** and **EXP-STA**.

With the **DB25TSF** connected to the **EXP** board, any signal inputs from any controller can be used to control the I/O modules on the expander board.

DB15TSM   GENERIC

The **DB15TSM** terminal strip with DB25 male connector has nomenclature corresponding to the DB25 pin numbers, and mates directly to the Analog I/O port of all of the Integrity Instruments M2, M3 and M4 series of Data Acquisition modules. It is shipped with hardware to attach permanently to the module.

The **DB15TSM** provides for easy access to the Analog I/O of our M2, M3, and M4 series modules as well as to all the other power, ground and other voltages available.

The tables below list the I/O connection and the signals available at the analog I/O point of the data acquisition modules.

M2 series ANALOG I/O	
DB15 Pins	Description
1	NA
2	NA
3	NA
4	NA
5	NA
6	NA
7	ANALOG IN CHANNEL 1
8	ANALOG IN CHANNEL 0
9	GND
10	+ V UNREG
11	+ 5VDC REG
12	NA
13	V REFERENCE
14	ANALOG OUT B
15	ANALOG OUT A

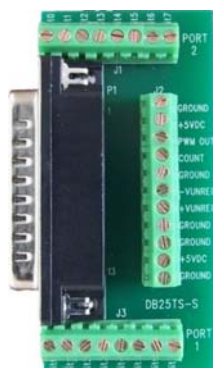| M# and M4 series ANALOG I/O	
DB15 Pins	Description
1	ANALOG IN CHANNEL 7
2	ANALOG IN CHANNEL 6
3	ANALOG IN CHANNEL 5
4	ANALOG IN CHANNEL 4
5	ANALOG IN CHANNEL 3
6	ANALOG IN CHANNEL 2
7	ANALOG IN CHANNEL 1
8	ANALOG IN CHANNEL 0
9	GND
10	+ V UNREG
11	+ 5VDC REG
12	- V UNREG
13	V REFERENCE
14	ANALOG OUT B
15	ANALOG OUT A

DB25TS-U   CUSTOM

The **DB25TS-U** terminal strip with DB25 male connector has nomenclature corresponding to the Digital I/O port of all of the Integrity Instruments M2, M3 and M4 series of Data Acquisition modules. It is shipped with hardware to attach permanently to the module.

The **DB25TS-U** provides for easy access to the Digital I/O of our M2, M3, and M4 series modules as well as to all the other power, ground and other voltages available.

The tables below list the I/O connection and the signals available at the Digital I/O point of the data acquisition modules.

All connections for both the M2, M3, and M4 series are identical, except of course that the M2 series only has 8 digital I/O points.

Digital I/O M2 Series	
DB25 Pins	**Description**
1	Port 2 Bit 0
2	Port 2 Bit 1
3	Port 2 Bit 2
4	Port 2 Bit 3
5	Port 2 Bit 4
6	Port 2 Bit 5
7	Port 2 Bit 6
8	Port 2 Bit 7
9	PWM output
10	N/A
11	+V_Unreg
12	+5Vdc
13	GND
14	N/A
15	N/A
16	N/A
17	N/A
18	N/A
19	N/A
20	N/A
21	N/A
22	Pulse Counter Input
23	N/A
24	+5Vdc
25	GND

Digital I/O M3 and M4 Series	
DB25 Pins	**Description**
1	Port 2 Bit 0
2	Port 2 Bit 1
3	Port 2 Bit 2
4	Port 2 Bit 3
5	Port 2 Bit 4
6	Port 2 Bit 5
7	Port 2 Bit 6
8	Port 2 Bit 7
9	PWM output
10	N/A
11	+V_Unreg
12	+5Vdc
13	GND
14	Port 1 Bit 0
15	Port 1 Bit 1
16	Port 1 Bit 2
17	Port 1 Bit 3
18	Port 1 Bit 4
19	Port 1 Bit 5
20	Port 1 Bit 6
21	Port 1 Bit 7
22	Pulse Counter Input
23	-5Vdc
24	+5Vdc
25	GND

DB15TS-U   CUSTOM

The **DB15TS-U** terminal strip with DB55 male connector has nomenclature corresponding to the Analog I/O port of all of the Integrity Instruments M2, M3 and M4 series of Data Acquisition modules. It is shipped with hardware to attach permanently to the module.

The **DB15TS-U** provides for easy access to the Analog I/O of our M2, M3, and M4 series modules as well as to all the other power, ground and other voltages available.

The tables below list the I/O connection and the signals available at the analog I/O point of the data acquisition modules.

M2 series ANALOG I/O	
DB15 Pins	Description
1	NA
2	NA
3	NA
4	NA
5	NA
6	NA
7	ANALOG IN CHANNEL 1
8	ANALOG IN CHANNEL 0
9	GND
10	+ V UNREG
11	+ 5VDC REG
12	NA
13	V REFERENCE
14	ANALOG OUT B
15	ANALOG OUT A

| M# and M4 series ANALOG I/O	
DB15 Pins	Description
1	ANALOG IN CHANNEL 7
2	ANALOG IN CHANNEL 6
3	ANALOG IN CHANNEL 5
4	ANALOG IN CHANNEL 4
5	ANALOG IN CHANNEL 3
6	ANALOG IN CHANNEL 2
7	ANALOG IN CHANNEL 1
8	ANALOG IN CHANNEL 0
9	GND
10	+ V UNREG
11	+ 5VDC REG
12	- V UNREG
13	V REFERENCE
14	ANALOG OUT B
15	ANALOG OUT A

DIMENSIONS

DB25TSF   **DB25TSM**   **DB15TSM**   **GENERIC**

Dimensions for DB25TSF and DB25TSM are the same.
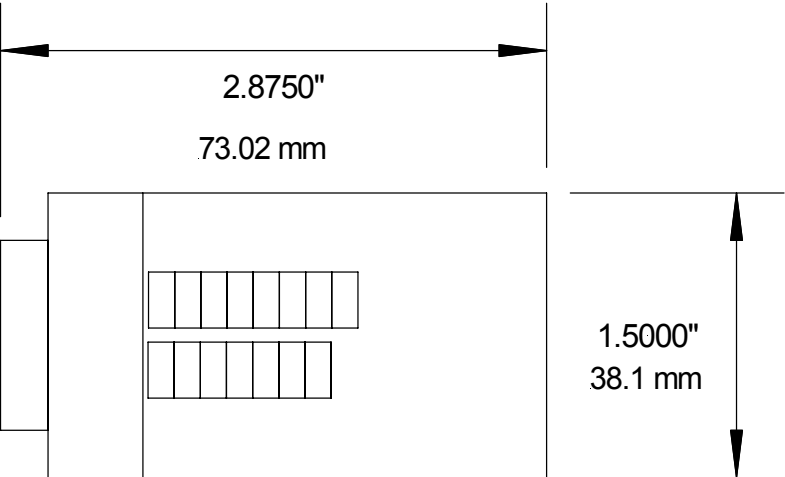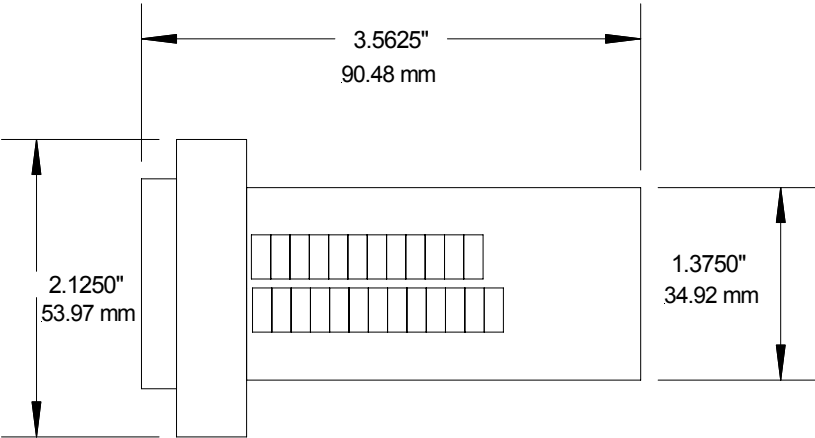
DIMENSIONS

DB15TS-U   **DB25TS-U**   **CUSTOM**

3.0000"
76.2 mm

1.4250"
36.19 mm

3.0000"
76.2 mm

1.2500"
31.75 mm
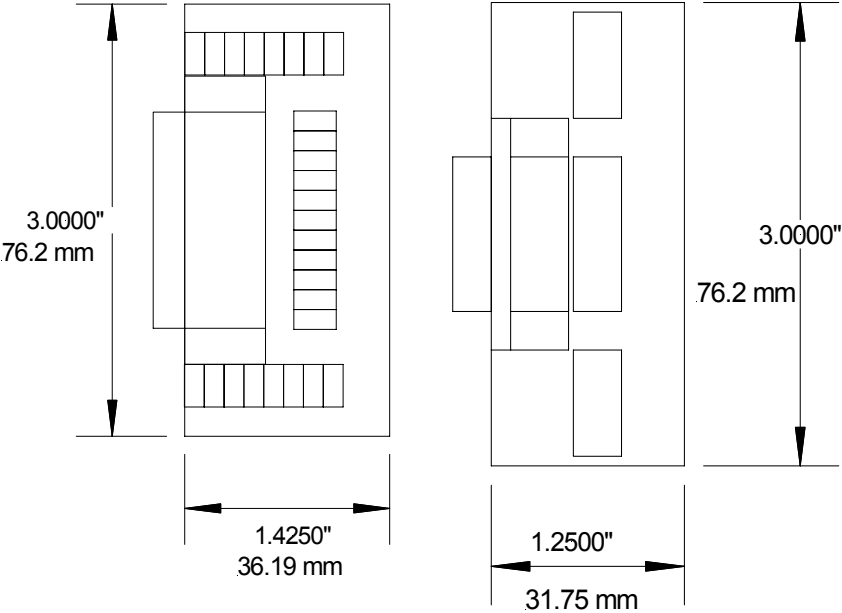
REFERENCE

Hexadecimal conversion chart

EXAMPLE HEX CONVERSION															
X				X				Y				Y			
BITS 1	1	0	0	1	0	0	0	1	0	1	1	0	1	1	1
HEX C				8				B				7			

PORT 1										PORT 2									
X					X					Y					Y				
HEX VALUE	BIT VALUE				HEX VALUE	BIT VALUE				HEX VALUE	BIT VALUE				HEX VALUE	BIT VALUE			
	7	6	5	4		3	2	1	0		7	6	5	4		3	2	1	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	0	0	0	1
2	0	0	1	0	2	0	0	1	0	2	0	0	1	0	2	0	0	1	0
3	0	0	1	1	3	0	0	1	1	3	0	0	1	1	3	0	0	1	1
4	0	1	0	0	4	0	1	0	0	4	0	1	0	0	4	0	1	0	0
5	0	1	0	1	5	0	1	0	1	5	0	1	0	1	5	0	1	0	1
6	0	1	1	0	6	0	1	1	0	6	0	1	1	0	6	0	1	1	0
7	0	1	1	1	7	0	1	1	1	7	0	1	1	1	7	0	1	1	1
8	1	0	0	0	8	1	0	0	0	8	1	0	0	0	8	1	0	0	0
9	1	0	0	1	9	1	0	0	1	9	1	0	0	1	9	1	0	0	1
A	1	0	1	0	A	1	0	1	0	A	1	0	1	0	A	1	0	1	0
B	1	0	1	1	B	1	0	1	1	B	1	0	1	1	B	1	0	1	1
C	1	1	0	0	C	1	1	0	0	C	1	1	0	0	C	1	1	0	0
D	1	1	0	1	D	1	1	0	1	D	1	1	0	1	D	1	1	0	1
E	1	1	1	0	E	1	1	1	0	E	1	1	1	0	E	1	1	1	0
F	1	1	1	1	F	1	1	1	1	F	1	1	1	1	F	1	1	1	1