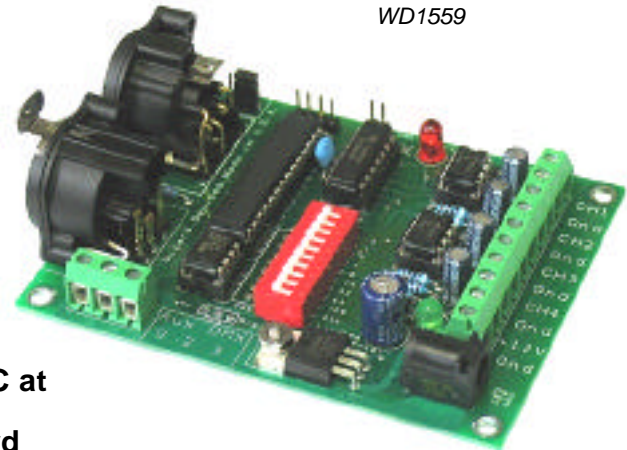


DMX 4-Channel Voltage Converter (Decoder)



**DMX 4-Ch Voltage
Converter Board**

Power Supply: 12VDC @ 1.0 Amp
3" W x 3-7/8"Lx 1-1/8" H

Overview

A four (4Ch) channel DMX to Voltage - 0-10V DC at 20mA per channel converter with base address selectable between 1 and 509 for use on standard DMX512 networks.

Setup

Connection:

5 Pin XLR Connectors (M / F - IN and Pass Through Out) or Network wire terminal block connector.
Power Supply: +12V DC via either 2-way terminal block or 2.1mm connector (center+)
Outputs: 0-10V DC @ up to 20mA per channel via 2-way screw terminals
(outputs use LM358 op amps- In IC Socket for easy replacement if accidentally damaged)

DMX Fault LED: RED Status LED

DMX LED- **ON** when a suitable DMX signal is being received or a flashing LED when **NO** valid DMX signal stream is being received by the 4-Ch DMX Voltage Converter board.

Address Selection:

The board base address may be set between 1 and 509 using the onboard DIP switches on any standard DMX512 networks. Optional - add on Rotary Address Switch module also available.

Range selection:

DIP Switch No. 10 - selects between a standard linear output (switch in OFF position- default position) and a logarithmic output (switch in ON position) on all 4 output channels.

Power Supply: Green Status LED

Power Supply: +12V DC @ 1Amp via either 2-way terminal block or 2.1mm connector (center+)

Settings - (See Pages on Control / Addressing for more details)

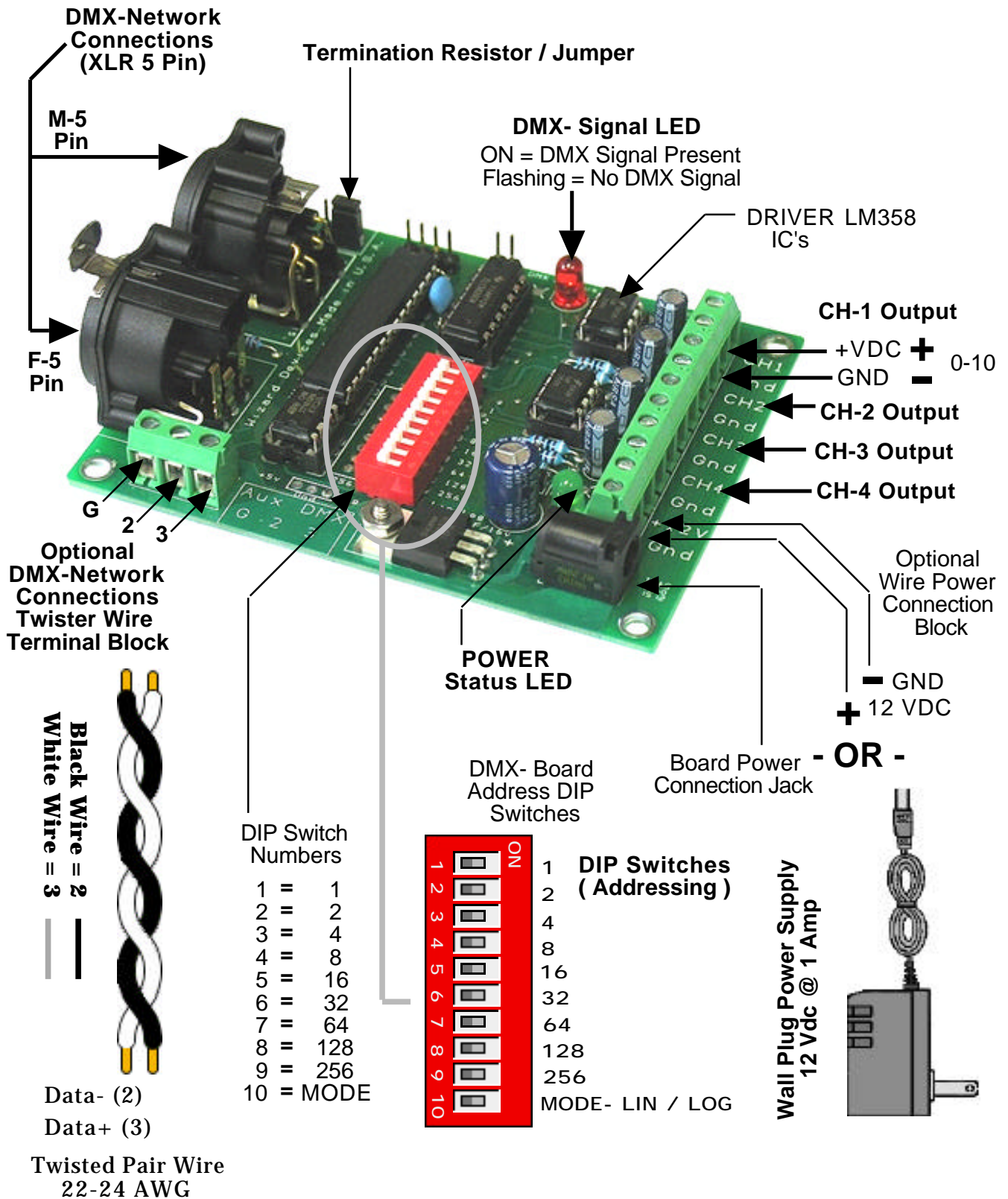
Set the start base address of the 4-Channel Voltage Converter Board as follows:
Select a valid DMX number for output channel-1 (address range 1 to 509). Look up the DMX switch settings for the selected value from the DMX addressing chart and then move the onboard DIP switches to the correct matching position (On / Off) for the selected DMX value.

Example: DIP switches 16 and 32 set to **ON** position, the start base address is now 48 for the board, (Add the value of the address DIP switches set to the **ON** position to calculate the start base address), this value is used to determine the starting address of output channel-1 for DMX control. The next DMX channel would be address 49 for output channel-2, and for channel-3 DMX address 50 for output channel-3, etc. Use this same process of adding the next channel to the next channel value until you have all 4 output channels address values identified.

A control value of 0-255 will be used to control the 0-10 VDC output levels for each channel 1-4.
(Value 0= 0.0 Vdc, Value 255= 10.0 Vdc)

DMX 4-Ch Voltage Converter

Connections

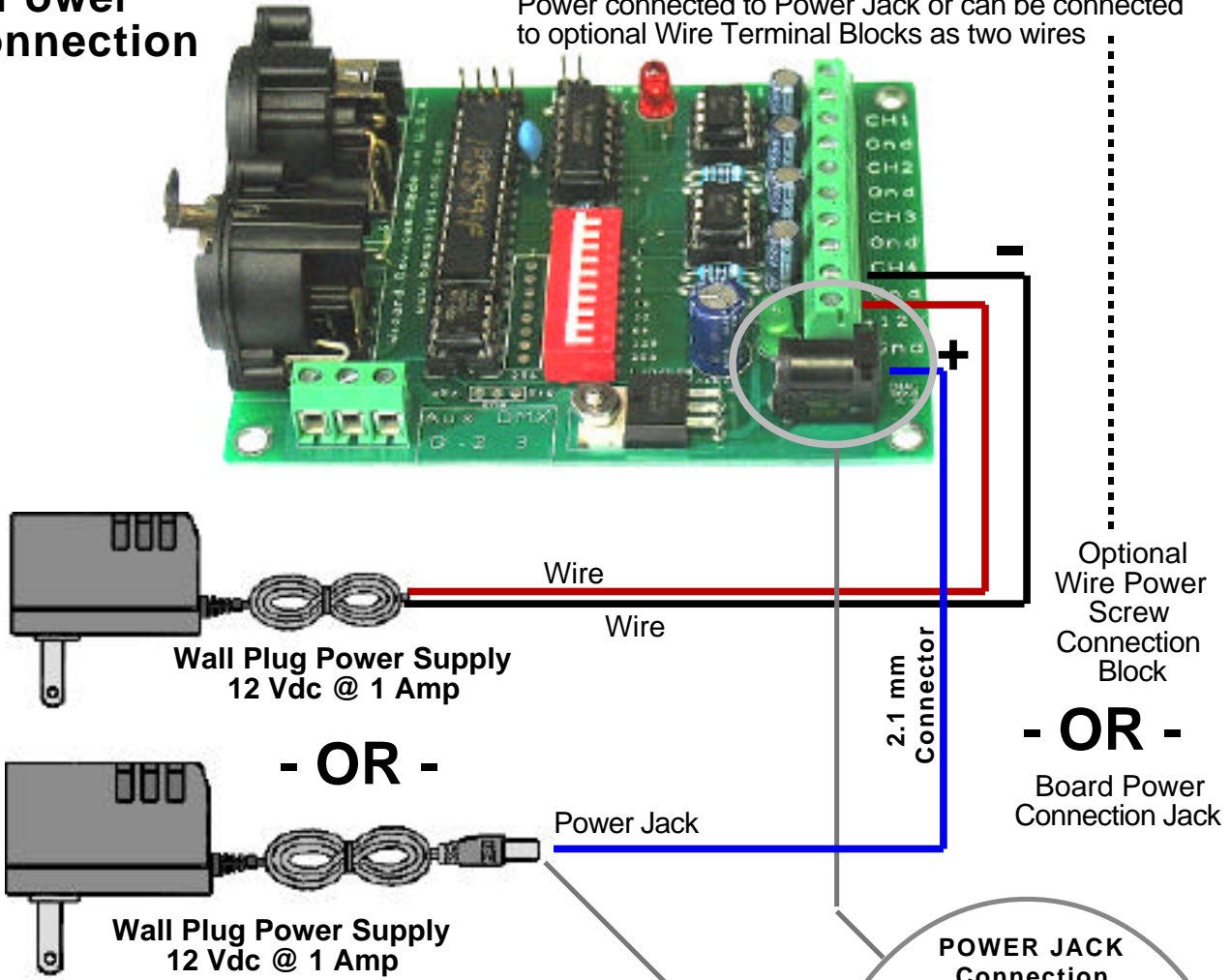


DMX 4-Ch Voltage Converter

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Power Connection

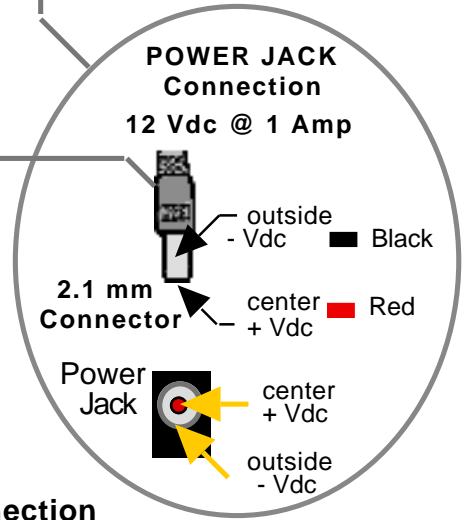
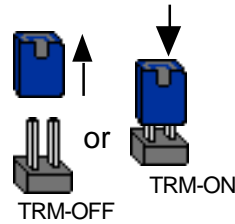
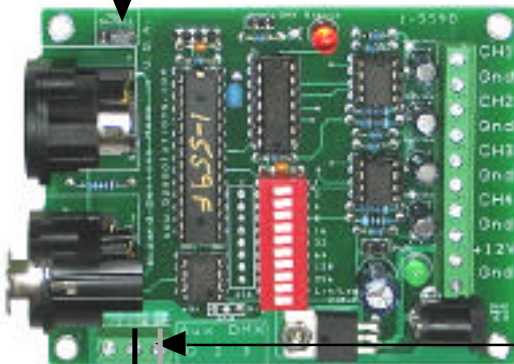
Power connected to Power Jack or can be connected to optional Wire Terminal Blocks as two wires



Network Terminator

Network Termination Jumper (Last board on Network-ON)

Termination Resistor / Jumper



DMX Network Connection

Black Wire = 2

White Wire = 3

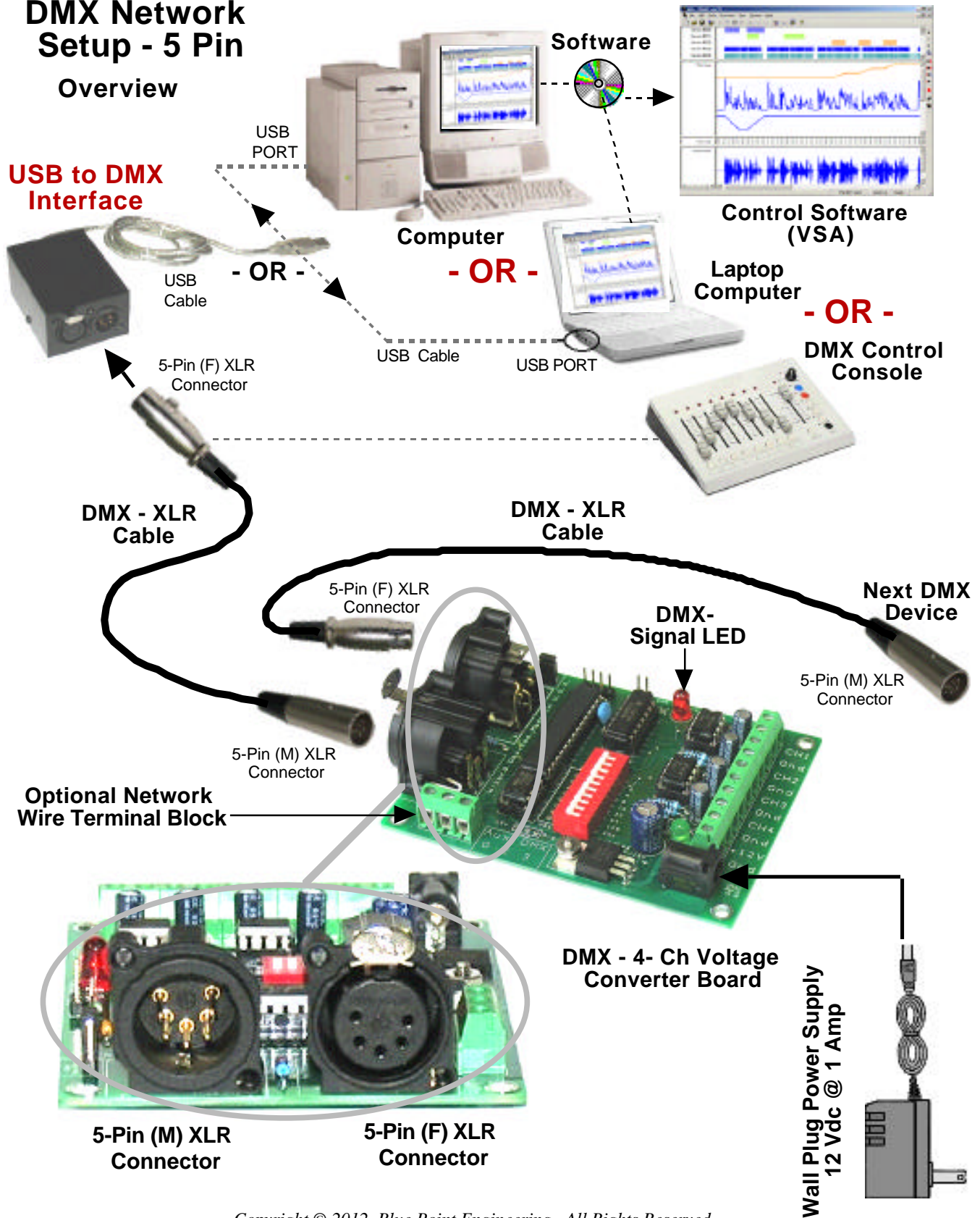


Twisted Pair Wire 22-24 AWG

DMX 4-Ch Voltage Converter

Technical T

DMX Network Setup - 5 Pin Overview



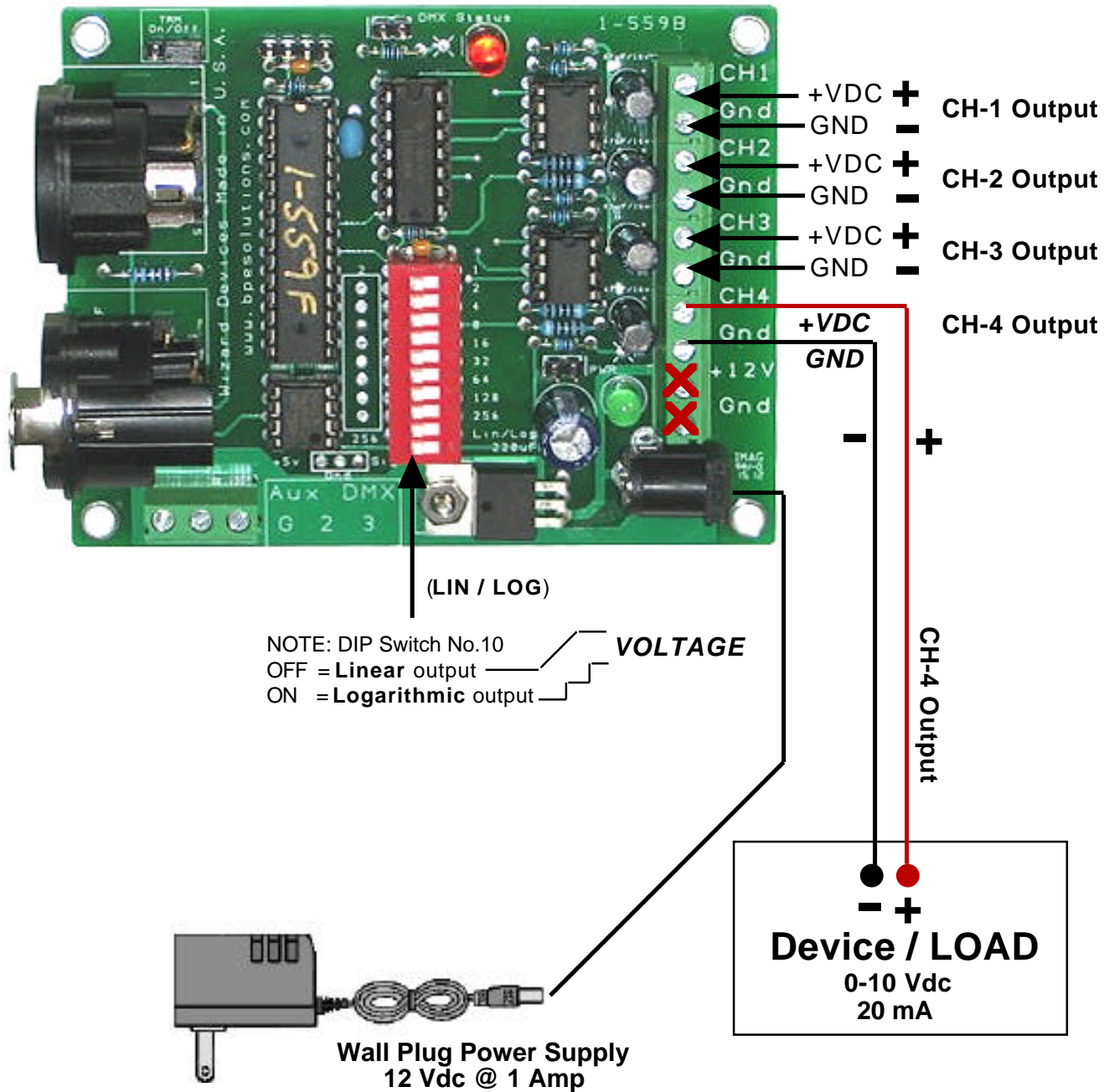
DMX 4-Ch Voltage Converter

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Overview

Channel Output Connection

0.0 - 10.0 VDC
20 mA
 Linear or Logarithmic output



DMX 4-Ch Voltage Converter

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Board Address DMX - Values

TOP VIEW

Example

CH1	CH1 = 48
Gnd	
CH2	CH2 = 49
Gnd	
CH3	CH3 = 50
Gnd	
CH4	CH4 = 51
Gnd	(CH=51)
+12V	(Value= 255)
Gnd	(Output = 10 Vdc)
	(Value= 0)
	(Output = 0 Vdc)
	(Value= 1-254)
	(Output = 1- 10 Vdc)

DIP Switches (Addressing)

Switch Number	Switch Position (ON or OFF)	Switch Value
1	ON	1
2	ON	2
3	ON	4
4	ON	8
5	ON	16
6	ON	32
7	ON	64
8	ON	128
9	ON	256
10	OFF	Moc

(LIN / LOG)

DIP Switch Numbers

1 = 1	9 = 256
2 = 2	10 = RS
3 = 4	
4 = 8	
5 = 16	
6 = 32	
7 = 64	

DMX Value 0-255 = 0-100%
DMX Value 0-255 = 0.0Vdc to 10.0Vdc

Base address selectable between 1 and 512

16+32 = 48

Setting the base address of Output Channels.

Add the value of the address DIP switches set to the **ON** position to calculate the base address.

Example(CH): DIP switches 5 and 6 set to **ON** position, the base address is now 48, (16+32) this setting is used to determine the starting address output of Ch1, the next channel would be address 49 for Ch2, and the next 50 for Ch3, and 51 for Ch4 output

Example Output CH - 4

Dip Switch 5 and 6 ON = **Base Address + 3 = 51 Channel- 4 Output** (Base Address starting at 48)

Switch 10 = OFF (linear output)

Channel-4 at value 1 = 1 Vdc

Channel-4 at value 255 = 10.0 Vdc (100%)

Channel-4 at value 2 to 254 = linear output voltage from 1.5 Vdc to 9.9 Vdc

Channel-4 at value 0 = 0.0 Vdc Output

NOTE: DIP Switch No.10 (**LIN / LOG**) - selects between a standard **Linear** output (switch in **OFF** position- default position) and a **Logarithmic** output (switch in **ON** position) on all 4 output channels.

DMX 512 Chart - US Standard

Address Switch Setting

DMX Voltage Converter



Technical

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Chart A - US
Standard DMX 512

Ch - Switches

1 = 1
2 = 2
3 = 1, 2
4 = 3
5 = 1, 3
6 = 2, 3
7 = 1, 2, 3
8 = 4
9 = 1, 4
10 = 2, 4
11 = 1, 2, 4
12 = 3, 4
13 = 1, 3, 4
14 = 2, 3, 4
15 = 1, 2, 3, 4
16 = 5
17 = 1, 5
18 = 2, 5
19 = 1, 2, 5
20 = 3, 5
21 = 1, 3, 5
22 = 2, 3, 5
23 = 1, 2, 3, 5
24 = 4, 5
25 = 1, 4, 5
26 = 2, 4, 5
27 = 1, 2, 4, 5
28 = 3, 4, 5
29 = 1, 3, 4, 5
30 = 2, 3, 4, 5
31 = 1, 2, 3, 4, 5
32 = 6
33 = 1, 6
34 = 2, 6
35 = 1, 2, 6
36 = 3, 6
37 = 1, 3, 6
38 = 2, 3, 6
39 = 1, 2, 3, 6
40 = 4, 6
41 = 1, 4, 6
42 = 2, 4, 6
43 = 1, 2, 4, 6
44 = 3, 4, 6
45 = 1, 3, 4, 6
46 = 2, 3, 4, 6
47 = 1, 2, 3, 4, 6
48 = 5, 6
49 = 1, 5, 6
50 = 2, 5, 6
51 = 1, 2, 5, 6
52 = 3, 5, 6

Ch - Switches

53 = 1, 3, 5, 6
54 = 2, 3, 5, 6
55 = 1, 2, 3, 5, 6
56 = 4, 5, 6
57 = 1, 4, 5, 6
58 = 2, 4, 5, 6
59 = 1, 2, 4, 5, 6
60 = 3, 4, 5, 6
61 = 1, 3, 4, 5, 6
62 = 2, 3, 4, 5, 6
63 = 1, 2, 3, 4, 5, 6
64 = 7
65 = 1, 7
66 = 2, 7
67 = 1, 2, 7
68 = 3, 7
69 = 1, 3, 7
70 = 2, 3, 7
71 = 1, 2, 3, 7
72 = 4, 7
73 = 1, 4, 7
74 = 2, 4, 7
75 = 1, 2, 4, 7
76 = 3, 4, 7
77 = 1, 3, 4, 7
78 = 2, 3, 4, 7
79 = 1, 3, 4, 7
80 = 5, 7
81 = 1, 5, 7
82 = 2, 5, 7
83 = 1, 2, 5, 7
84 = 3, 5, 7
85 = 1, 3, 5, 7
86 = 2, 3, 5, 7
87 = 1, 2, 3, 5, 7
88 = 4, 5, 7
89 = 1, 4, 5, 7
90 = 2, 4, 5, 7
91 = 1, 2, 4, 5, 7
92 = 3, 4, 5, 7
93 = 1, 3, 4, 5, 7
94 = 2, 3, 4, 5, 7
95 = 1, 2, 3, 4, 5, 7
96 = 6, 7
97 = 1, 6, 7
98 = 2, 6, 7
99 = 1, 2, 6, 7
100 = 3, 6, 7
101 = 1, 3, 6, 7
102 = 2, 3, 6, 7
103 = 1, 2, 3, 6, 7
104 = 4, 6, 7

Ch - Switches

105 = 1, 4, 6, 7
106 = 2, 4, 6, 7
107 = 1, 2, 4, 6, 7
108 = 3, 4, 6, 7
109 = 1, 3, 4, 6, 7
110 = 2, 3, 4, 6, 7
111 = 1, 2, 3, 4, 6, 7
112 = 5, 6, 7
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155 = 1, 2, 4, 5, 8
156 = 3, 4, 5, 8

Ch - Switches

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167 = 1, 2, 3, 6, 8
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Ch - Switches

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Ch - Switches

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Ch - Switches

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Ch - Switches

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 443 = 1, 2, 4, 5, 6, 8, 9

Ch - Switches

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 497 = 1, 5, 6, 7, 8, 9
 498 = 2, 5, 6, 7, 8, 9
 499 = 1, 2, 5, 6, 7, 8, 9
 500 = 3, 5, 6, 7, 8, 9
 501 = 1, 3, 5, 6, 7, 8, 9
 502 = 2, 3, 5, 6, 7, 8, 9
 503 = 1, 2, 3, 5, 6, 7, 8, 9
 504 = 4, 5, 6, 7, 8, 9

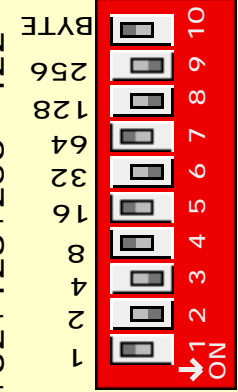
Ch - Switches

505 = 1, 4, 5, 6, 7, 8, 9
 506 = 2, 4, 5, 6, 7, 8, 9
 507 = 1, 2, 4, 5, 6, 7, 8, 9
 508 = 3, 4, 5, 6, 7, 8, 9
 509 = 1, 3, 4, 5, 6, 7, 8, 9
 510 = NOT AVAILABLE
 511 = NOT AVAILABLE
 512 = NOT AVAILABLE

Example $2 + 4 + 32 + 128 + 256 = 422$

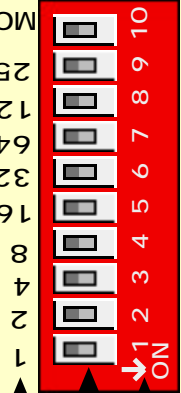
Address
422

Address = 422
Switch ON = 2, 3, 6, 8, 9



DIP Switches US Standard DMX 512 (Addressing)

OFF ON



Switch Value
Switch Position (ON or OFF)
Switch Number

Custom Equipment, Unique Electronic Products

Blue Point Engineering

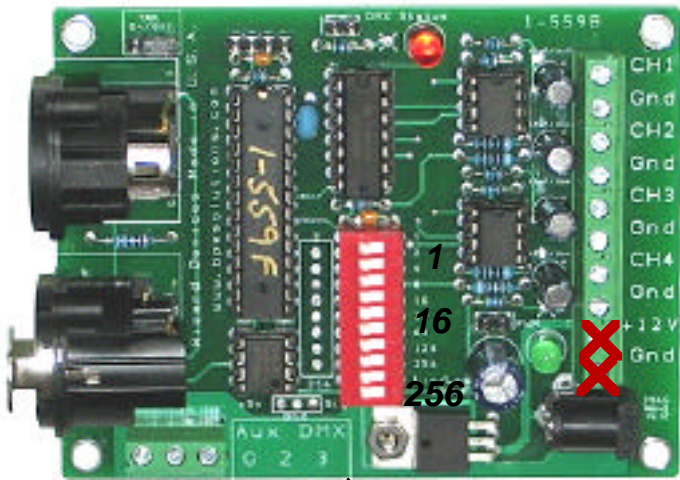
Phone (303) 651-3794 (MST)
www.BPEsolutions.com

DMX 4-Ch Voltage Converter

Notes / Work Sheet:

DMX VOLTAGE CONVERTER BOARD NO: _____

DMX VOLTAGE CONVERTER Application: _____



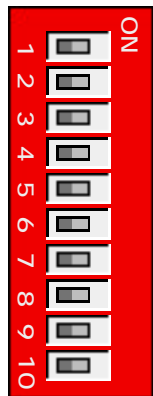
Addressing	Output Application
CH - 1	_____
CH - 2	_____
CH - 3	_____
CH - 4	_____

DIP Switch No. 10 - selects between a standard linear or logarithmic output .

Switch in OFF position - standard linear output, on all 4 output channels. (default)
 Switch in ON position - logarithmic output, on all 4 output channels.

DIP Switches (Addressing)

DIP Switch Numbers	Addressing
1 = 1	1
2 = 2	2
3 = 4	4
4 = 8	8
5 = 16	16
6 = 32	32
7 = 64	64
8 = 128	128
9 = 256	256
10 = MODE	LIN / LOG



Addressing

DMX Value	0	1
	OFF	ON

SW-1	_____
SW-2	_____
SW-3	_____
SW-4	_____

Switch Positions (UP / Down)

1 = ON
 0 = OFF