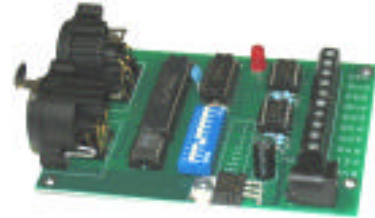


DMX 4-Ch Voltage Converter

Version 1.0 -2009
WD1559

Overview

A four (4Ch) channel DMX to Voltage - 0-10V DC at 20mA per channel converter with base address selectable between 1 and 512 for use on standard DMX512 networks.



**DMX 4-Ch Voltage
Converter Board**

Power Supply: 12VDC @ 1.0 Amp
2- 7/8" W x 3-7/8"Lx 1-1/4" H

Setup

Connection:

5 Pin XLR Connectors (M / F - IN and Pass Through Out)
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- see the manufacturer' s data sheet for device power limitations)

DMX Fault 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 512 using the onboard DIP switches on any standard DMX512 networks.

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:

Power Supply: +12V DC 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 504). 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)

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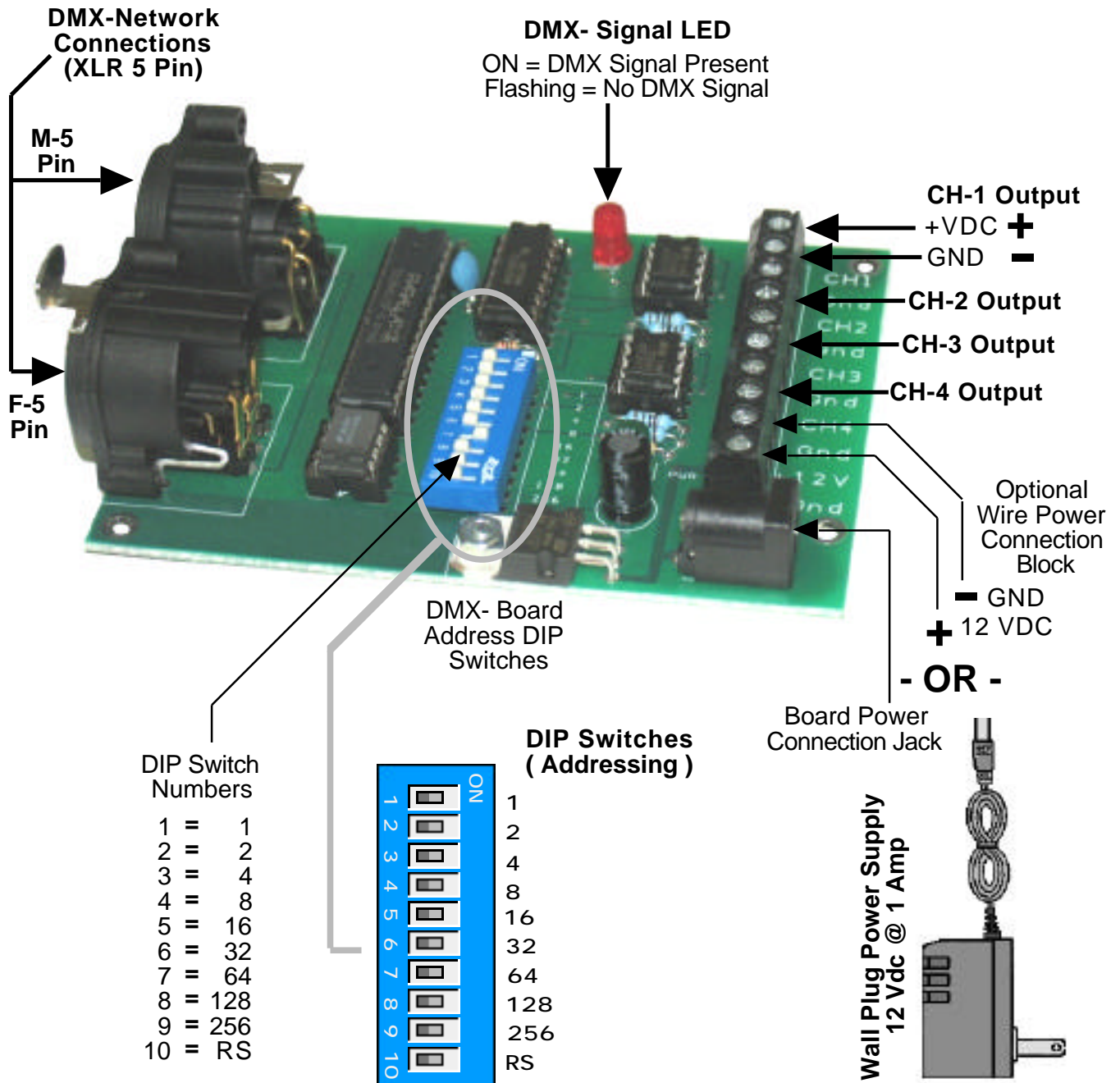
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DMX 4-Ch Voltage Converter

Hook-up



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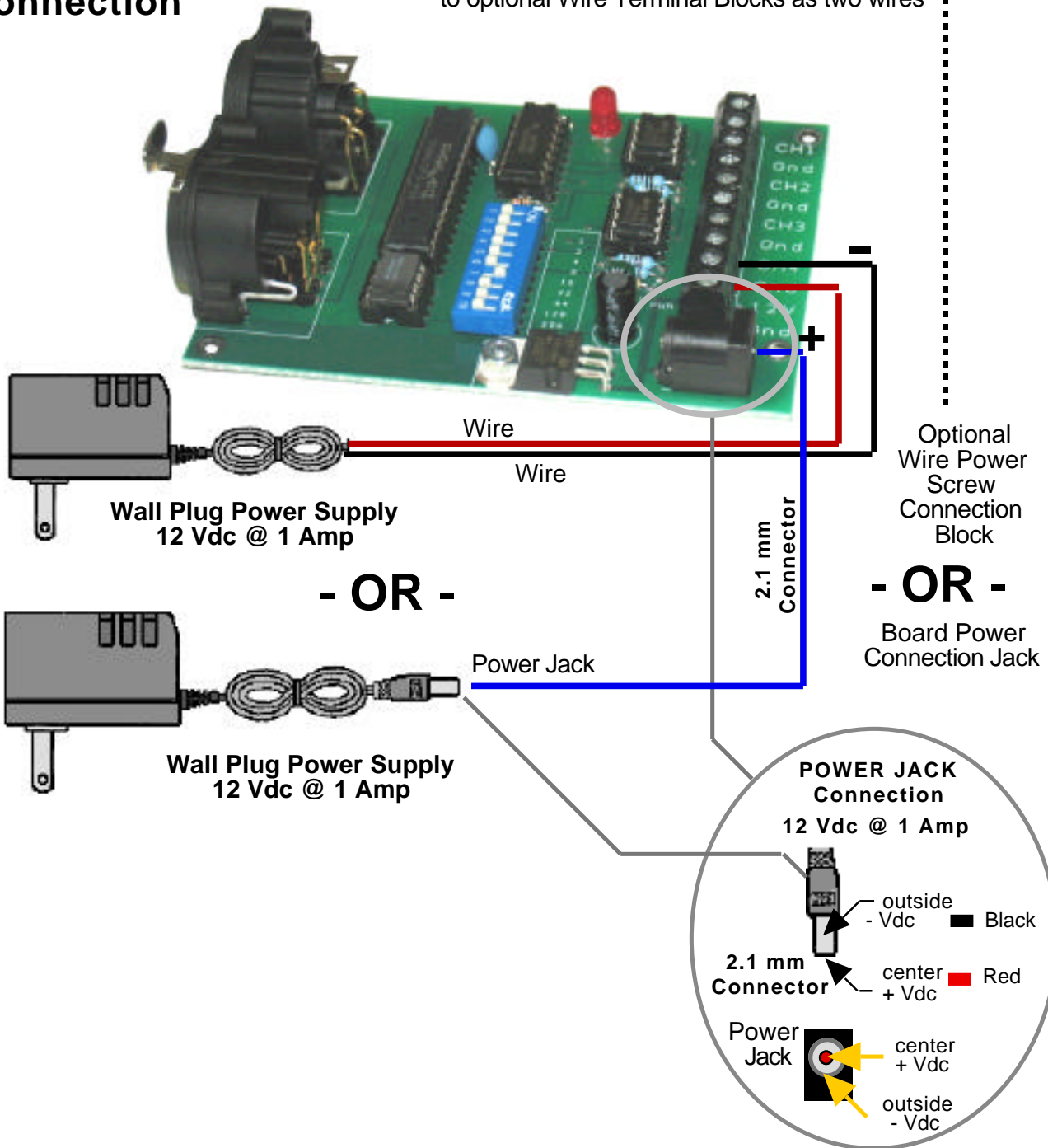
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DMX 4-Ch Voltage Converter Board

Power Connection

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



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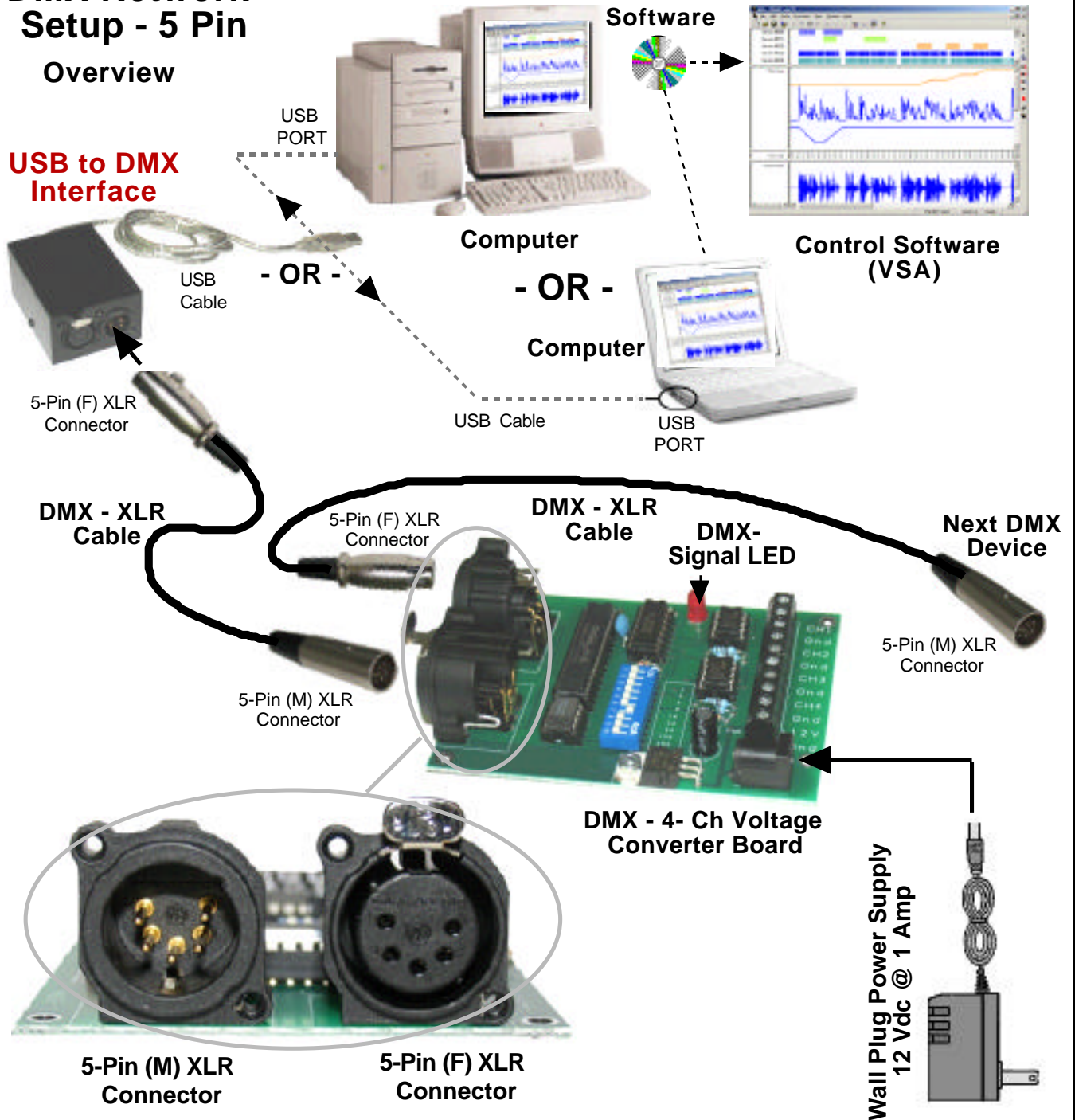
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DMX 4-Ch Voltage Converter Board

DMX Network Setup - 5 Pin Overview

USB to DMX Interface



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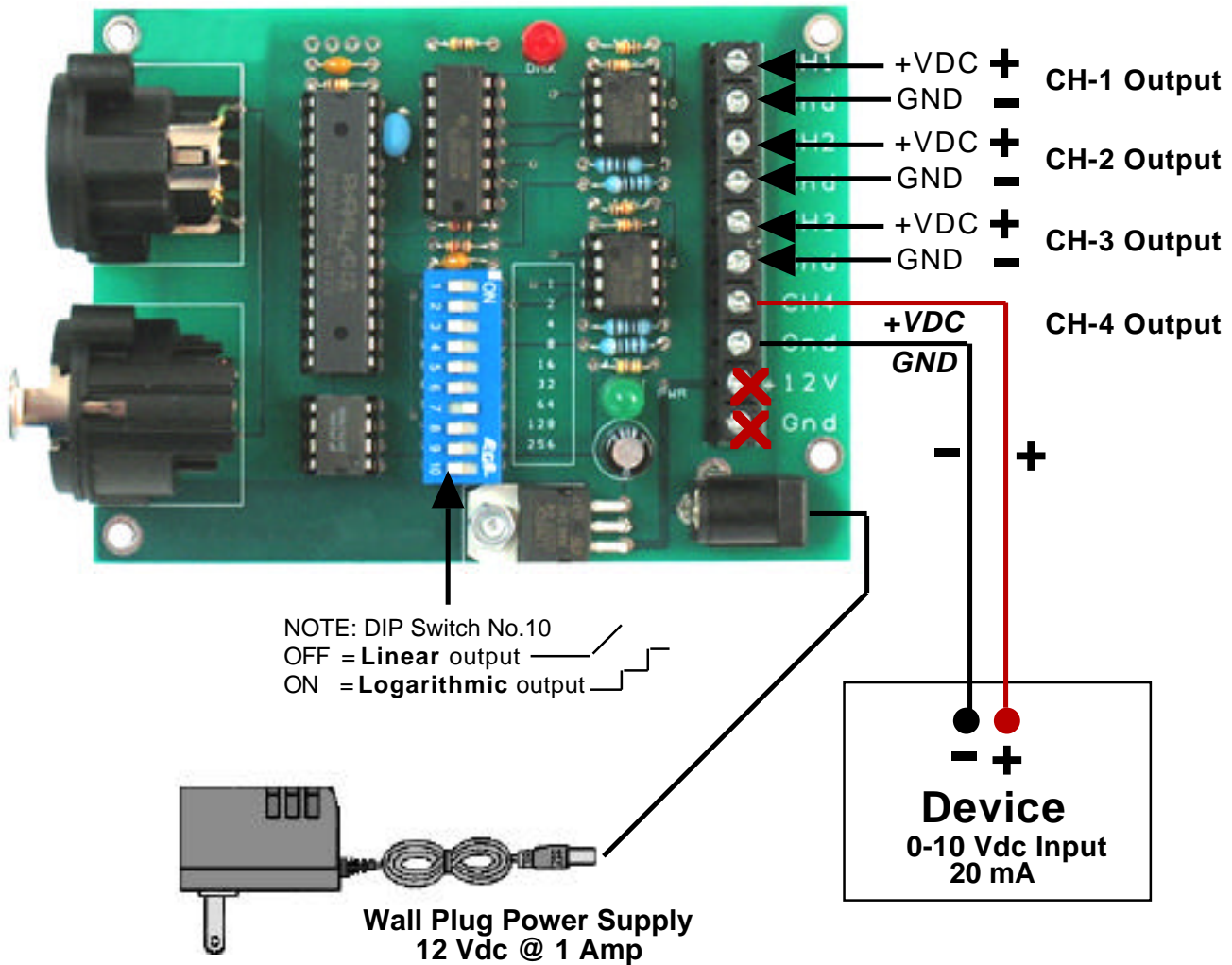
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DMX 4-Ch Voltage Converter Board

Overview

Channel Output Connection

0.0 - 10.0 VDC
20 mA
Linear or Logarithmic output



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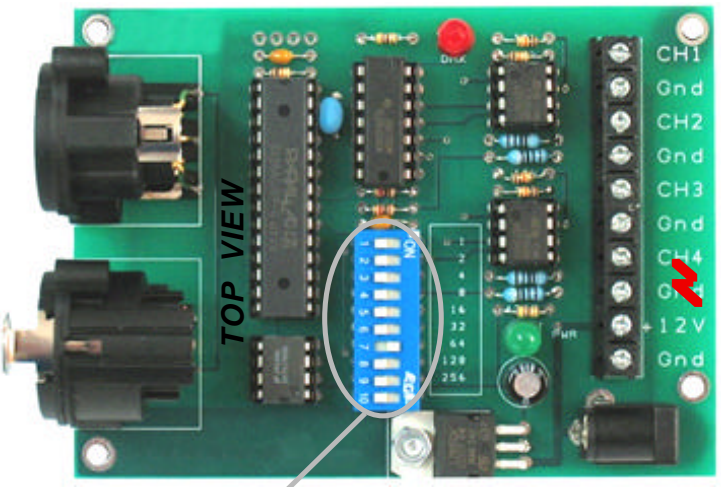
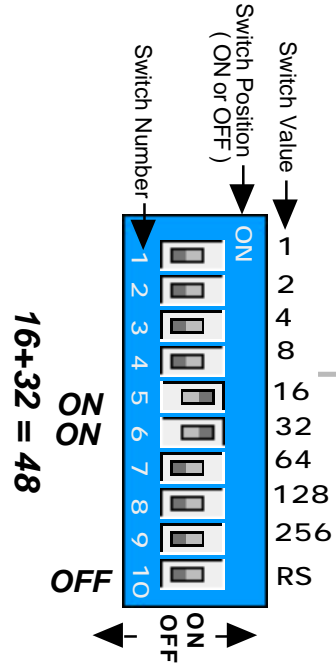
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DMX 4-Ch Voltage Converter Board

Board Address DMX - Values



Example

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

DIP Switches (Addressing)

- DIP Switch Numbers
- 1 = 1
 - 2 = 2
 - 3 = 4
 - 4 = 8
 - 5 = 16
 - 6 = 32
 - 7 = 64
 - 8 = 128
 - 9 = 256
 - 10 = RS

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

Base address selectable between 1 and 512

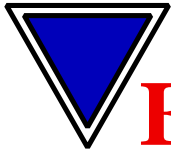
Setting the base address of Output Channels.

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 (RS) - 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

Chart A - US Standard DMX 512

Ch - Switches	Ch - Switches	Ch - Switches	Ch - Switches	Ch - Switches
1 = 1	53 = 1, 3, 5, 6	105 = 1, 4, 6, 7	157 = 1, 3, 4, 5, 8	209 = 1, 5, 7, 8
2 = 2	54 = 2, 3, 5, 6	106 = 2, 4, 6, 7	158 = 2, 3, 4, 5, 8	210 = 2, 5, 7, 8
3 = 1, 2	55 = 1, 2, 3, 5, 6	107 = 1, 2, 4, 6, 7	159 = 1, 2, 3, 4, 5, 8	211 = 1, 2, 5, 7, 8
4 = 3	56 = 4, 5, 6	108 = 3, 4, 6, 7	160 = 6, 8	212 = 3, 5, 7, 8
5 = 1, 3	57 = 1, 4, 5, 6	109 = 1, 3, 4, 6, 7	161 = 1, 6, 8	213 = 1, 3, 5, 7, 8
6 = 2, 3	58 = 2, 4, 5, 6	110 = 2, 3, 4, 6, 7	162 = 2, 6, 8	214 = 2, 3, 5, 7, 8
7 = 1, 2, 3	59 = 1, 2, 4, 5, 6	111 = 1, 2, 3, 4, 6, 7	163 = 1, 2, 6, 8	215 = 1, 2, 3, 5, 7, 8
8 = 4	60 = 3, 4, 5, 6	112 = 5, 6, 7	164 = 3, 6, 8	216 = 4, 5, 7, 8
9 = 1, 4	61 = 1, 3, 4, 5, 6	113 = 1, 5, 6, 7	165 = 1, 3, 6, 8	217 = 1, 4, 5, 7, 8
10 = 2, 4	62 = 2, 3, 4, 5, 6	114 = 2, 5, 6, 7	166 = 2, 3, 6, 8	218 = 2, 4, 5, 7, 8
11 = 1, 2, 4	63 = 1, 2, 3, 4, 5, 6	115 = 1, 2, 5, 6, 7	167 = 1, 2, 3, 6, 8	219 = 1, 2, 4, 5, 7, 8
12 = 3, 4	64 = 7	116 = 3, 5, 6, 7	168 = 4, 6, 8	220 = 3, 4, 5, 7, 8
13 = 1, 3, 4	65 = 1, 7	117 = 1, 3, 5, 6, 7	169 = 1, 4, 6, 8	221 = 1, 3, 4, 5, 7, 8
14 = 2, 3, 4	66 = 2, 7	118 = 2, 3, 5, 6, 7	170 = 2, 4, 6, 8	222 = 2, 3, 4, 5, 7, 8
15 = 1, 2, 3, 4	67 = 1, 2, 7	119 = 1, 2, 3, 5, 6, 7	171 = 1, 2, 4, 6, 8	223 = 1, 2, 3, 4, 5, 7, 8
16 = 5	68 = 3, 7	120 = 4, 5, 6, 7	172 = 3, 4, 6, 8	224 = 6, 7, 8
17 = 1, 5	69 = 1, 3, 7	121 = 1, 4, 5, 6, 7	173 = 1, 3, 4, 6, 8	225 = 1, 6, 7, 8
18 = 2, 5	70 = 2, 3, 7	122 = 2, 4, 5, 6, 7	174 = 2, 3, 4, 6, 8	226 = 2, 6, 7, 8
19 = 1, 2, 5	71 = 1, 2, 3, 7	123 = 1, 2, 4, 5, 6, 7	175 = 1, 2, 3, 4, 6, 8	227 = 1, 2, 6, 7, 8
20 = 3, 5	72 = 4, 7	124 = 3, 4, 5, 6, 7	176 = 5, 6, 8	228 = 3, 6, 7, 8
21 = 1, 3, 5	73 = 1, 4, 7	125 = 1, 3, 4, 5, 6, 7	177 = 1, 5, 6, 8	229 = 1, 3, 6, 7, 8
22 = 2, 3, 5	74 = 2, 4, 7	126 = 2, 3, 4, 5, 6, 7	178 = 2, 5, 6, 8	230 = 2, 3, 6, 7, 8
23 = 1, 2, 3, 5	75 = 1, 2, 4, 7	127 = 1, 2, 3, 4, 5, 6, 7	179 = 1, 2, 5, 6, 8	231 = 1, 2, 3, 6, 7, 8
24 = 4, 5	76 = 3, 4, 7	128 = 8	180 = 3, 5, 6, 8	232 = 4, 6, 7, 8
25 = 1, 4, 5	77 = 1, 3, 4, 7	129 = 1, 8	181 = 1, 3, 5, 6, 8	233 = 1, 4, 6, 7, 8
26 = 2, 4, 5	78 = 2, 3, 4, 7	130 = 2, 8	182 = 2, 3, 5, 6, 8	234 = 2, 4, 6, 7, 8
27 = 1, 2, 4, 5	79 = 1, 3, 4, 7	131 = 1, 2, 8	183 = 1, 2, 3, 5, 6, 8	235 = 1, 2, 4, 6, 7, 8
28 = 3, 4, 5	80 = 5, 7	132 = 3, 8	184 = 4, 5, 6, 8	236 = 3, 4, 6, 7, 8
29 = 1, 3, 4, 5	81 = 1, 5, 7	133 = 1, 3, 8	185 = 1, 4, 5, 6, 8	237 = 1, 3, 4, 6, 7, 8
30 = 2, 3, 4, 5	82 = 2, 5, 7	134 = 2, 3, 8	186 = 2, 4, 5, 6, 8	238 = 2, 3, 4, 6, 7, 8
31 = 1, 2, 3, 4, 5	83 = 1, 2, 5, 7	135 = 1, 2, 3, 8	187 = 1, 2, 4, 5, 6, 8	239 = 1, 2, 3, 4, 6, 7, 8
32 = 6	84 = 3, 5, 7	136 = 4, 8	188 = 3, 4, 5, 6, 8	240 = 5, 6, 7, 8
33 = 1, 6	85 = 1, 3, 5, 7	137 = 1, 4, 8	189 = 1, 3, 4, 5, 6, 8	241 = 1, 5, 6, 7, 8
34 = 2, 6	86 = 2, 3, 5, 7	138 = 2, 4, 8	190 = 2, 3, 4, 5, 6, 8	242 = 2, 5, 6, 7, 8
35 = 1, 2, 6	87 = 1, 2, 3, 5, 7	139 = 1, 2, 4, 8	191 = 1, 2, 3, 4, 5, 6, 8	243 = 1, 2, 5, 6, 7, 8
36 = 3, 6	88 = 4, 5, 7	140 = 3, 4, 8	192 = 7, 8	244 = 3, 5, 6, 7, 8
37 = 1, 3, 6	89 = 1, 4, 5, 7	141 = 1, 3, 4, 8	193 = 1, 7, 8	245 = 1, 3, 5, 6, 7, 8
38 = 2, 3, 6	90 = 2, 4, 5, 7	142 = 2, 3, 4, 8	194 = 2, 7, 8	246 = 2, 3, 5, 6, 7, 8
39 = 1, 2, 3, 6	91 = 1, 2, 4, 5, 7	143 = 1, 2, 3, 4, 8	195 = 1, 2, 7, 8	247 = 1, 2, 3, 5, 6, 7, 8
40 = 4, 6	92 = 3, 4, 5, 7	144 = 5, 8	196 = 3, 7, 8	248 = 4, 5, 6, 7, 8
41 = 1, 4, 6	93 = 1, 3, 4, 5, 7	145 = 1, 5, 8	197 = 1, 3, 7, 8	249 = 1, 4, 5, 6, 7, 8
42 = 2, 4, 6	94 = 2, 3, 4, 5, 7	146 = 2, 5, 8	198 = 2, 3, 7, 8	250 = 2, 4, 5, 6, 7, 8
43 = 1, 2, 4, 6	95 = 1, 2, 3, 4, 5, 7	147 = 1, 2, 5, 8	199 = 1, 2, 3, 7, 8	251 = 1, 2, 4, 5, 6, 7, 8
44 = 3, 4, 6	96 = 6, 7	148 = 3, 5, 8	200 = 4, 7, 8	252 = 3, 4, 5, 6, 7, 8
45 = 1, 3, 4, 6	97 = 1, 6, 7	149 = 1, 3, 5, 8	201 = 1, 4, 7, 8	253 = 1, 3, 4, 5, 6, 7, 8
46 = 2, 3, 4, 6	98 = 2, 6, 7	150 = 2, 3, 5, 8	202 = 2, 4, 7, 8	254 = 2, 3, 4, 5, 6, 7, 8
47 = 1, 2, 3, 4, 6	99 = 1, 2, 6, 7	151 = 1, 2, 3, 5, 8	203 = 1, 2, 4, 7, 8	255 = 1, 2, 3, 4, 5, 6, 7, 8
48 = 5, 6	100 = 3, 6, 7	152 = 4, 5, 8	204 = 3, 4, 7, 8	256 = 9
49 = 1, 5, 6	101 = 1, 3, 6, 7	153 = 1, 4, 5, 8	205 = 1, 3, 4, 7, 8	257 = 1, 9
50 = 2, 5, 6	102 = 2, 3, 6, 7	154 = 2, 4, 5, 8	206 = 2, 3, 4, 7, 8	258 = 2, 9
51 = 1, 2, 5, 6	103 = 1, 2, 3, 6, 7	155 = 1, 2, 4, 5, 8	207 = 1, 2, 3, 4, 7, 8	259 = 1, 2, 9
52 = 3, 5, 6	104 = 4, 6, 7	156 = 3, 4, 5, 8	208 = 5, 7, 8	260 = 3, 9

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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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 503 = 1, 2, 3, 5, 6, 7, 8, 9
 504 = 4, 5, 6, 7, 8, 9

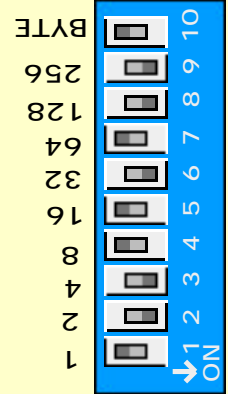
Ch - Switches

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 = 2, 3, 4, 5, 6, 7, 8, 9
 511 = 1, 2, 3, 4, 5, 6, 7, 8, 9
 512 = 0

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

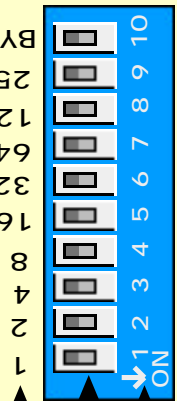
Address
422

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

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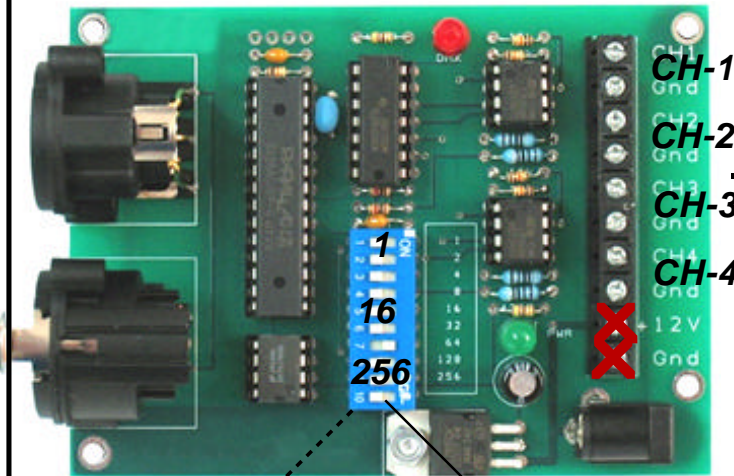
DMX 4-Ch Voltage Converter Board

Notes / Work Sheet:

DMX VOLTAGE CONVERTER BOARD NO: _____

DMX VOLTAGE CONVERTER Application: _____

Addressing Output Application



CH-1	CH - 1
CH-2	CH - 2
CH-3	CH - 3
CH-4	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
2	2
3	4
4	8
5	16
6	32
7	64
8	128
9	256
10	RS

Addressing

DMX Value	0	1
	OFF	ON

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

Switch Positions (UP / Down)

1 = ON
0 = OFF