



DESCRIPTION:

The CGDMX-512BI is a serial to DMX interface which makes easy interfacing possible between a CRESTRON control system and lighting products using the DMX512 protocol.

Only one serial RS-232/422 port on the Crestron control system is required to communicate with the DMX512 interface.

The DMX512 Interface has two separate DMX Ports, one **DMX Out** to send data to the DMX lighting products and one **DMX In** to receive and / or control data from a DMX512 Lighting console or other Lighting control units.

DMX512 Input and Output are connected through if Power is Off.

It is possible to switch between different modes, to process the incoming data with the Crestron data.

The new power supply is able to work continuously from 85V up to 265V ac 47-63 Hz.

TECHNICAL SPECIFICATIONS:

Dimensions	200mm x 110mm x 47mm (L x W x D)
Color	black plastic enclosure
Power supply	85 –265V AC, 47–63 Hz, 5VA
Included in delivery box	RS232 communication cable and power cord
RS232 Port	9 pin Sub-D (1:1 cable to the Crestron system)
DMX512 In	Speed (baud) 1200 – 115200, 8, N, 1, (default 38400) 5 pin XLR male (Pin1 = GND, Pin2 = TX-, Pin3 = TX+) DMX512, 512 channels
DMX512 Thru/Out	Baudrate: 250.000, RS422 type communication 5 pin XLR female (Pin1 = GND, Pin2 = TX-, Pin3 = TX+) DMX512, 512 channels
LED's.....	Baudrate: 250.000, RS422 type communication red Power green CN COM RX/TX communication green DMX512 receiving DMX512 data

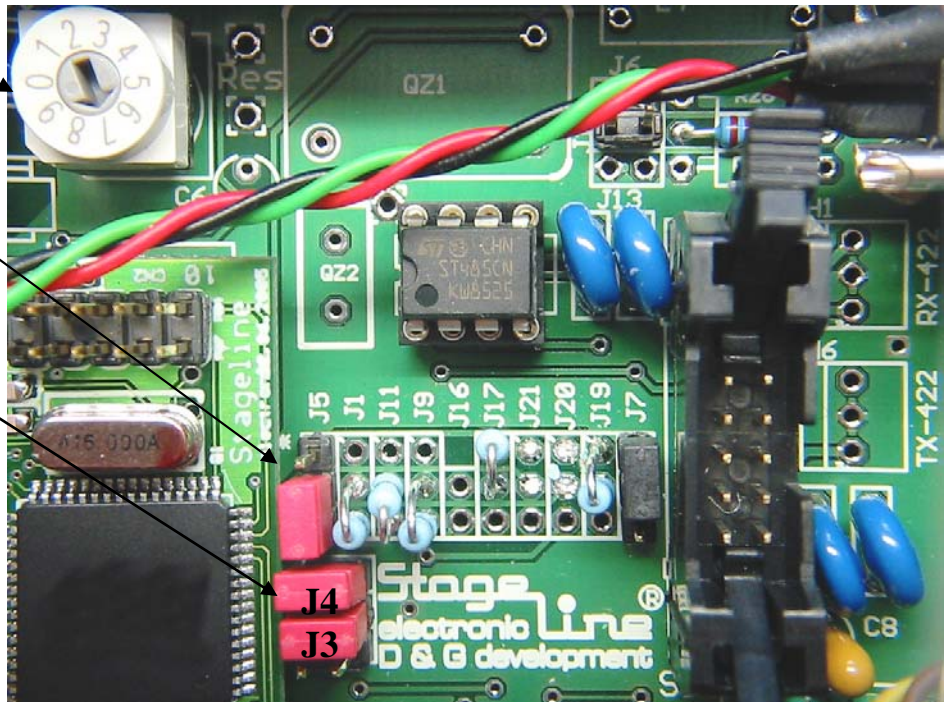
Modes:

J3 and J4 plugged (default)	LTP mode (Last Take Precedence) between DMX512 IN and Data from Crestron. Any change in DMX512 IN Dataframe is transmitted via RS232
J3 plugged	LTP mode (Last Take Precedence) between DMX512 IN and Data from Crestron but without autotransmit on RS232
J4 plugged	HTP mode, (Highest Take Precedence), between DMX512 IN and Data from Crestron.
J3+J4 not plugged	no mode selected, DMX IN disabled, DMX OUT enabled, unit sends data

Baudrate selector: 0= 1200, 1= 2400, 2= 4800, 3= 9600, 4= 14400, 5= 19200, 6= 28800, 7= 38400, 8= 76800, 9=115200

Interface select:
Up = RS422
Down= RS232

Mode select:



Integration in SIMPL Windows:

In SIMPL Windows the analog signals/values generated by e.g. a ramp or slider symbol can be directed straight to the required DMX channel. The data are sent out by an Intersystem Communications symbol. These analog values can also be visualized on a touchpanel. Only the upper 8 bits of the analog value is used for DMX.

CGDMX programming example:

Use analog values between 0-100% (unscaled analog value)

Left Side	Right Side
com-a-rxd	com-a-txd
DMX-Channel1	aout1 DMX-Channel1_FB
DMX-Channel2	aout2 DMX-Channel2_FB
DMX-Channel3	aout3 DMX-Channel3_FB
DMX-Channel4	aout4 DMX-Channel4_FB
DMX-Channel5	aout5 DMX-Channel5_FB
DMX-Channel6	aout6 DMX-Channel6_FB
DMX-Channel7	aout7 DMX-Channel7_FB
DMX-Channel8	aout8 DMX-Channel8_FB
DMX-Channel9	aout9 DMX-Channel9_FB
DMX-Channel10	aout10 DMX-Channel10_FB
DMX-Channel11	aout11 DMX-Channel11_FB
DMX-Channel12	aout12 DMX-Channel12_FB
DMX-Channel13	aout13 DMX-Channel13_FB
DMX-Channel14	aout14 DMX-Channel14_FB
dig_in1	dig_out1

Offset: 0d
Option: 0d