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.

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TECHNICAL SPECIFICATIONS:

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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)
	Speed (baud) 1200 – 115200, 8, N, 1, (default 38400)
DMX512 In …………………………………:	5 pin XLR male (Pin1 = GND, Pin2 = TX-, Pin3 = TX+)
	DMX512, 512 channels
	Baudrate: 250.000, RS422 type communication
DMX512 Thru/Out ……………………… :	5 pin XLR female (Pin1 = GND, Pin2 = TX-, Pin3 = TX+)
	DMX512, 512 channels
	Baudrate: 250.000, RS422 type communication
LED's……………………………………... :	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:
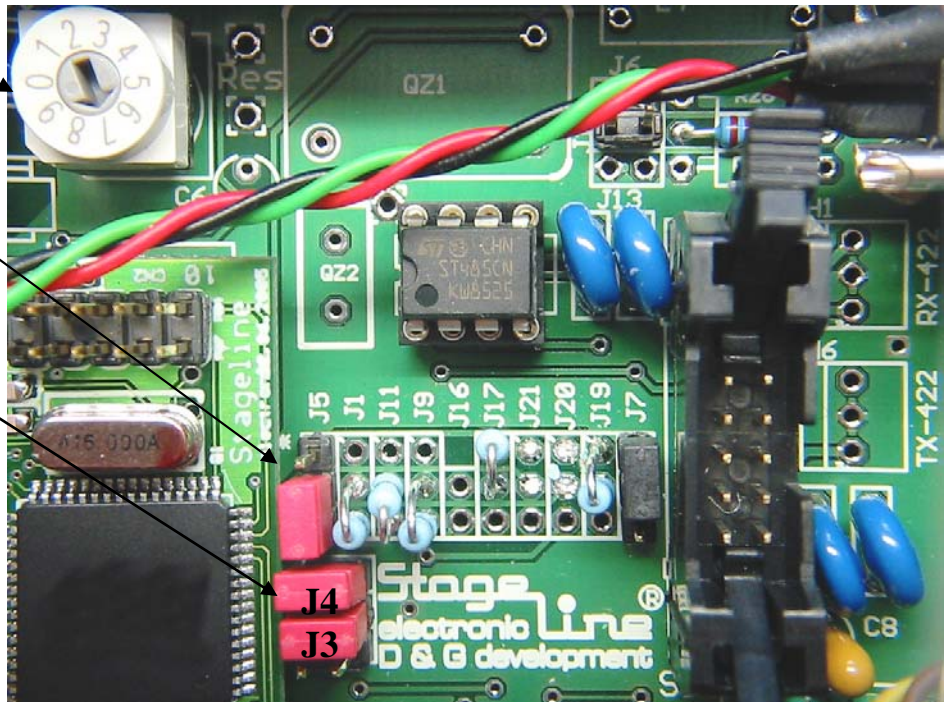
Integration in SIMPL Windows:

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 send 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: