Optical Switch Evaluation Kit Circuit Board and Software (ROHS6-MB01A)

(Protected by U.S. patent 6823102 and pending patents)

Product Description

The SW-DR-2 evaluation kit is comprised of a driver board, a switching mounting board, software, a power supply, and a computer interface cable. It is designed to drive and control Agiltron CrystaLatch™ (CL) series and LightBend™ (LB) series optical switches up to 15 switching points. The evaluation board integrates both standard USB and TTL interfaces, allowing the user to easily create flexible and customized control logic configurations. It features real time control and supports all port configurations of Agiltron CL and LB series switches. A user-friendly GUI Windows™ program is included for switching testing. A RS232 interface is also include that require jumping.

The standard driver controls one individual switch. Drivers that control multiple switches also are available, please contact sales

Electrical Specifications

Parameters	Min	Normal	Max	Unit	Notes
Control Channels	1		8		
Output Switching Voltage	4.75	5	5.25	V	Pulse width output to control CL or LB switches, through J3
Sustainable Switching Current			2.0	A	Total switching current, continuous
Output Pulse Width	0.1		3.0	ms	Driving pulse duration, software adjustable
Power Supply Voltage	4.75	5.0	5.25*	V	Input power supply through J2
Power Consumption (No Switching)			0.25	W	Hot pluggable. <1.5A inrush current
USB/RS232				V	Using J7 to select USB or RS232
TTL Interface	Compatible with Standard TTL Logic Level through J4.				
Electrical Connector Type	Male AMP 103309-2 or equivalent				
Board Dimension	(L)100mm x (W)60mm x (H)15mm				

*Over this value will damage the device

Control Modes

USB Control — This is a default setting for use with the supplied GUI Windows™-compatible software for programmable switching testing.

RS232 Control — This function needs to jump the two pins of J7 to close position. The black jump is provided on the J7. This communication port has 9600; data bits: 8; parity: none; stop bits: 1; flow control: none;
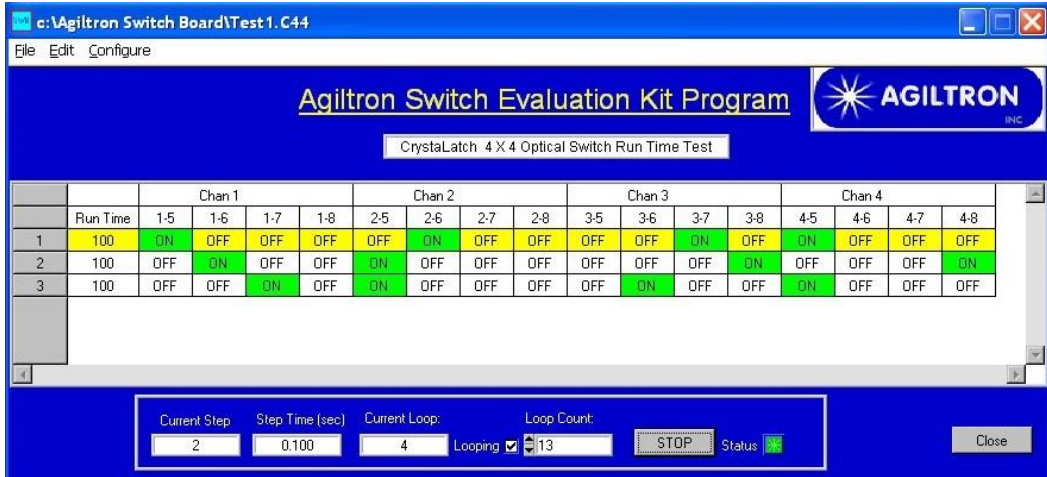
TTL Control — This function always works. Standard TTL logic level with TTL logic timing. A TTL emulator is available on the circuit board.

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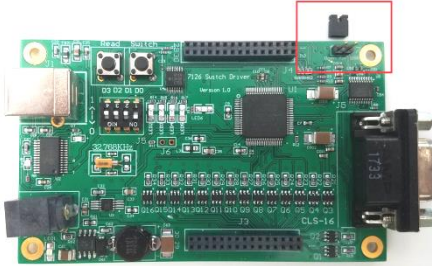
Graphic Example (4x4)

Changing from USB to RS232

Use the J7 connector (provided with switch) to choose USB or RS232.

J7 location   **USB**   **RS232**

Ordering Information

SWDR-				1		-ROHS6-MB01A
	Switch Type	**Function**	**Size(mm)**		**# of Switch**	**Control Mode**
	CL switch=22 LB switch=33	1x1=11 1x2=12 2x1=21 1x4=14 4x1=41 1x8=18 8x1=81 1x5=15 Special=00	100x60x15=1 Special=0		1 switch=11 2 switches=22 3 switches=33 . . . 9 switches=99 Special=0	USB & TTL=1 RS232 & TTL=2 Special=0 (USB & RS232 with a jumper to select)