### (1x1, 1x2, 2x1 Standard Single Stage)

(Protected by U.S. patent 7,403,677B1 and pending patents)





BUY NOW



### Features

- High speed
- High repetition
- High output voltage
- Wide input voltage range
- TTL/CMOS control
- Push-Pull output design
- Low power consumption
- Compact and low cost

### **Applications**

- Optical Switch
- EO device driver

The NS switch driver provides a convenient way to use the NS series electrooptical switches, which act as a pure capacitive load. Each driver is tuned to a specific device mounted on the PCB. To operate, the customer only needs to plug in the accompanying DC power supply and input a control signal through the golden SMA connector. The switch will be activated as the input voltage exceeds 3V with less than 1µA draw, compatible with 3.3V CMOS/TTL. We produce boards to control multiple NS switches with individual SMA connectors. No computerbased control software is available for such a high-speed operation.

The dual-stage configuration increases the extinction ratio or cross-talk value.

#### **Specifications**

Parameter	Min	Typical	Max	Unit
Rise Time (Tr) <sup>[1]</sup>		85	100	ns
Fall Time (Tf) <sup>[2]</sup>		85	100	ns
Repetition Rate	DC		100	kHz
Pulse Width	1.0			μs
Control Input (TTL pulse)	0		5	V
Power Consumption			5	w
Power Current	0.08		0.4	А
Power Supply		12		v
Operating Temperature	-5		70	°C
Storage Temperature	-40		80	°C
Electrical Connector	SMA			

#### Note:

[1] Optic Intensity Change from 10% to 90% intuits;

[2] Optic Intensity Change from 90% to 10% intuits;

[3] Switch Speed (Rise): Duration from begin of electronic signal to end of optic intensity change;

[4] Switch Speed (Fall): Duration from begin of electronic signal to end of optic intensity change.

Warning: Control Signal >5.5V Will Damage the Board

Warning: This is an OEM module designed for system integration. Do not touch the PCB by hand. The electrical static can kill the chips even without a power plug-in. Unpleasant electrical shock may also be felt. For laboratory use, please buy a Turnkey system.

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Rev 12/19/23

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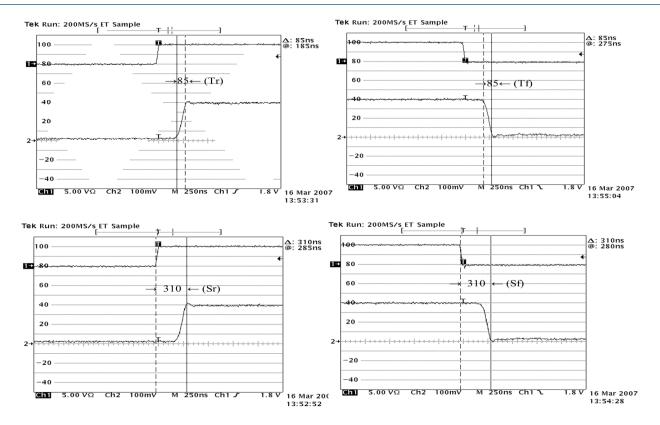
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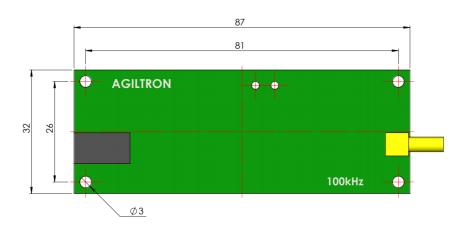
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### DATASHEET

#### **Response Measurement**



### **Dimensions (mm)**



\*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

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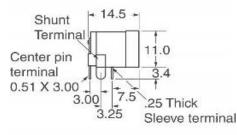
### DATASHEET

### **Power Connector**

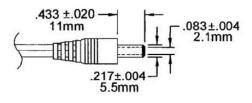
### P/N: <u>SC1313-ND</u>

Power Barrel Connector Jack 2.00mm ID (0.079"), 5.50mm OD (0.217") Through Hole, Right Angle

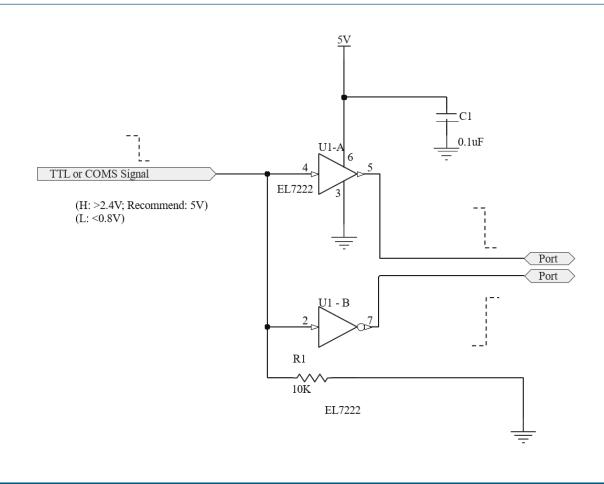




12V Wall Plug DC Power Supply Interface



### TTL Driver Interface (Our Circuit Diagram)



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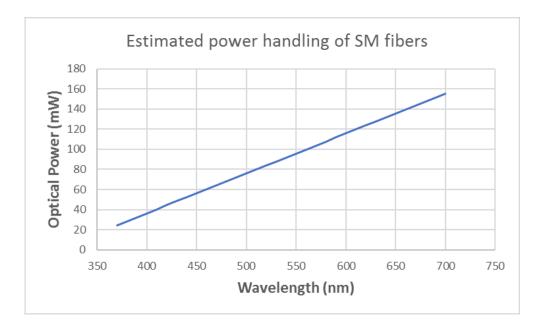
### **Ordering Information**

	1		2	6	1	1	1	
Prefix	Туре	Configuration	Latching	Repeat rate	Footprint		Control Mode	DC supply
SWDR-	Standard Single Stage = 1	1x1 = 1a Special=00	Non = 2	100kHz = 6	Standard = 1 Special = 0		TTL = 1 Special = 0	12VDC = 1 Special = 0

#### NOTE:

□ This driver is intended mounted with specific switches, tuned, and tested prior to shipping. It is not designed to be sold separately.





### **Operation Manual**

- 1. Connect a control signal to the SMA connector on the PCB.
- 2. Attach the accompanied power supply (typically a wall-pluggable unit).
- 3. The device should then function properly.

Note: Do not alter device factory settings.

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