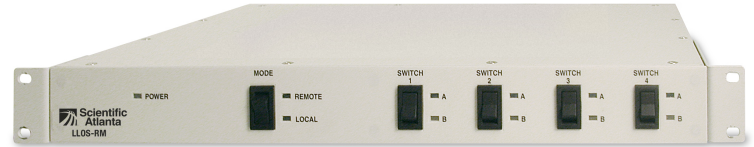


## Laser Link<sup>®</sup> Optical Switches

### Description

In the event of a primary optical path failure, the optical switch protects fiber transmission links by toggling to a redundant path. The switch position is determined by an input TTL voltage, ROSA / TNCS element management system, or by a manual rocker switch located on the front panel. The unit was designed to accept the TTL voltage from other Laser Link products, such as receivers or EDFAs.



Up to four individual optical switch components may be housed in and supported by a single one rack unit chassis.

### Features

- Accepts switch state determining logic from other Laser Link devices
- Allows for efficient use of space, single RU chassis supports up to 4 switch components
- Primary and redundant powering options (AC or DC)
- Configurable to house 1-4 switches in single RU chassis
- Front panel LEDs indicate switch position(s)
- TTL outputs provide voltages indicating switch position for external alarming
- Operates in remote or local mode
- Rear accessible, RJ-11 input and output jacks for ROSA / TNCS element management system interface



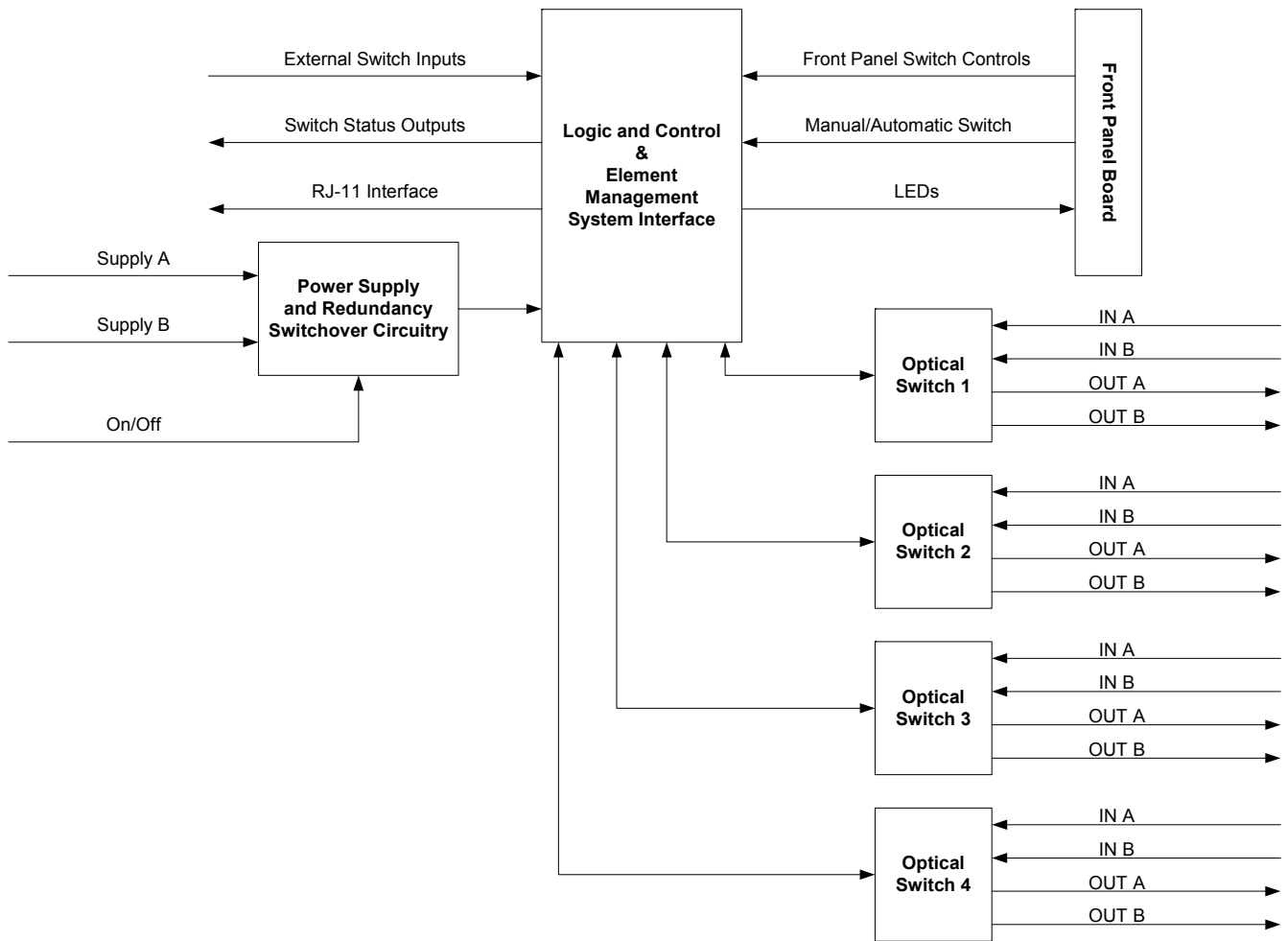
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# Laser Link Optical Switches



## Block Diagram



# Laser Link Optical Switches



## Specifications

Optical	Units	Specification	Notes
Wavelength Range	nm	1290-1650	
Insertion Loss	dB	1.5	1
Back Reflection (max.)	dB	-50	
Cross-Talk (max.)	dB	-80	
Durability	cycles	500,000	
PDL (max.)	dB	0.05	2
Input Power (max.)	dBm	23	
<b>Operating Parameters</b>			
Switching Time	msec	typical <25 max. <75	3
<b>Power</b>			
Supply Voltage Primary	V DC / V AC	24-60 / 20-35	4
Supply Current Primary	mA	<150 @ 24 V DC	
Power Consumption	W	3.6	
Supply Voltage Redundant	V DC / V AC	24-60 / 20-35	
Supply Current Redundant	mA	<150 @ 24 V DC	5
Power Consumption	W	3.6	
<b>Physical</b>			
Operating Temperature	°F (°C)	32-122 (0-50)	
Relative Humidity (min.-max.)	%	5-95 (Non condensing)	
Optical Connector		SC/APC	
Mounting		Standard 19" rack	
Dimensions(H x W x D)	in. cm	1.75 x 19 x 13 3.81 x 48.26 x 33.02	
Weight	lbs. kg	8 3.6	

### Notes:

1. Tested at both 1310 and 1550 nm
2. Measured at 1550 nm
3. Remote mode with rear inputs debounced
4. Device can operate with either a 24 V ac or dc input: when using a wall mount transformer, it should be selected with proper certifications for the country of use
5. Supply current is proportional to the input voltage: current at 60 V operation will be at least half of the rated amount

## Ordering Information

Description	Part Number
Optical Switch, 1 RU Single Switch	253345
Optical Switch, 1 RU Dual Switch	253346
Optical Switch, 1 RU Triple Switch	253347
Optical Switch, 1 RU Quad Switch	253348
Optical Switch, Upgrade Kit	253560



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