LT1100 $1 \times 100 \mathrm{SM}$ Fiber Optic Switch

| Item | Unit | Specifications |
| :---: | :---: | :---: |
| Wavelength Range | nm | 1310 / 1550 dual windows |
| Insertion Loss without Connectors | dB | < 1.0 |
| Insertion Loss with Connectors * | dB | < 1.5 |
| Back Reflection | dB | $<-55$ |
| Back Reflection with SC/UPC * | dB | $<-50$ |
| Crosstalk | dB | $<-70$ |
| Polarization Dependent Loss | dB | < 0.1 |
| Repeatability | dB | < $\pm 0.01$ |
| Switching Time | ms | $<80+25$ per channel |
| Durability | cycle | > 10 million |
| Input Optical Power | mW | < 300 |
| Control | -- | Ethernet RJ-45 on rear panel |
| Operating Voltage | VAC | $90-240$ VAC, $50 / 60 \mathrm{~Hz}$ |
| Power Consumption | w | < 10 W |
| Operating Temperature | ${ }^{\circ} \mathrm{C}$ | 0 to 50 |
| Storage Temperature | ${ }^{\circ} \mathrm{C}$ | - 40 to 70 |
| Humidity | -- | < 95\% RH, Non-Condensing |
| Fiber Type | -- | Corning SMF-28e (9/125 $\mu \mathrm{m}$ ) |
| Optical I/O Connectors | -- | SC/UPC |
| Chassis Dimensions (Hx W x D ) | mm | 19" Rack-mountable 6U-460 chassis $266 \times 455 \times 460$ |

[^0]LT1100 1x100 SM Fiber Optic Switch

## Switch Configuration



## Switch Command

| Command | Optical Paths |
| :---: | :---: |
| switch：0 | Com to 0 （null） |
| switch：1 | Com to 01 |
| switch：2 | Com to 02 |
| switch：3 | Com to 03 |
| switch：4 | Com to 04 |
| － | • |
| － | － |
| － | Com to 99 |
| switch：99 | Com to 100 |

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## Quick Control Guide

## Local Keypad Control:

Switch Module and Channel Selection

- Use arrow keys < $\Delta$ > or $\langle\nabla\rangle$ to select switch channel.
- Use <n> <ENT> for fast channel selection, where $\mathrm{n}=0 \sim 100$.
- Channel 0 is null position (no light)
- There may be a spare channel ( $\mathrm{n}=101$ )

Other Keys' Function:

- Press <SHT> in local mode to clear input numbers before press <ENT> for channel selection.
- Press <SHT> in remote mode to shift the control from remote mode (Ethernet) to local mode (keypad control).
- Use <RST> <ENT> to set $1 \times 100$ switch to the default status (null position, channel 0, no light passing).


## Remote Programming Guide:

The RS232 LED indicator will not illuminate until the first command is been received from the Ethernet port on the chassis. In other words, by linking the cable between controller and chassis will not change the indicator from local to Ethernet immediately.

## Switch Control Commands

- switch:n

Set $1 \times 100$ switch to channel $n$, where $n=0 \sim 100$
Example: switch:68
The LCD should show channel no.: 68

- switch?

Query the current switch channel
Example: switch?
The switch should respond 68 representing that the current switch channel is 68.

- type?

Query the switch maximum channel number
Example: type?
The switch should respond 100 representing that the switch maximum channel is 100.


[^0]:    *Speccifications with connectors are for incoming inspection only.

