

Timo Rantanen

HDO151 FIBRE OPTIC SWITCH

HDO151 is a fibre optic switch module for HDO product family. HDO151 unit has been designed for fibre optic routing as well as for back up switching. HDO151 can be operated both in 1310 nm and 1550 nm windows.

The unit has two inputs with optical power detectors and one output. The optical power detectors are used for making a switching decision. The unit works alone without any controller module.

A user can change the switching decision limits via UI.

Features

- Very low power consumption
- High reliability
- Low insertion loss
- Deep optical power detection window
- Wide operating wavelength range
- Small form factor family, 2 RU height
- Local and remote software control of all adjustments

Management features

- Switching decision optical power adjustment
- Signal routing monitoring
- Switching mode setting, automatic/ manual
- Switching restore setting, automatic/ manual
- Switching delay setting, high and low values
- Reference level setting with decision level setting
- LED indicators for signal and module statuses
- Internal temperature measurement and monitoring
- Non-volatile logging of 32 latest events, including alarms, alarming values, settings changes and application starts.
- Uptime and total uptime counters
- All alarm limits fully user configurable
- Local PC connection through backplane HDO bus with DVX021 cable
- Remote IP connection through HDC100 controller module
- SNMP monitoring and configuration through HDC100 controller module





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Technical specifications

Parameter	Specification	Note
Optical parameters		
Wavelength range Insertion loss with connector loss Cross talk Return loss Switching time Optical power window for switching decision Maximum optical power Number of optical ports General	12601360 nm and 14601620 nm 2 dB 60 dB 50 dB 10 ms -10+20 dBm +30 dBm 3	1)
Power consumption	2 W	
Supply voltages	25 V / 50 mA	
Optical connector Dimensions	6.3 V / 60 mA SC/APC or E-2000/APC 2U x 7HP x 380 mm h x	
Dimensions	Occupies 1/12 of HDX frame	w x d
Weight	1.5 kg	
EMC compliance	EN 50083-2	
Enclosure classification	IP20 0+45 °C	
Operating temperature range Storage temperature range	-20+60 °C	
Operating relative humidity	085 %	
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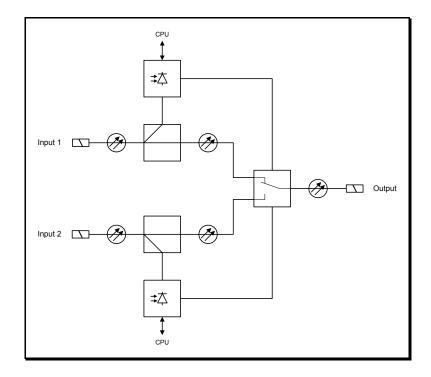
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Notes

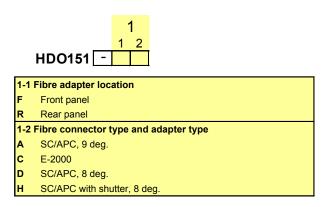
 Total optical power in an input. A user can set the switching decision optical power within this window. The optical power measurement resolution is ±1 dB in the window -5...+20 dBm and below -5 dBm the tolerance is larger.

Block diagram



Ordering information

HDO151 configuration map



DOC0000000, Rev. 000