DATA SHEET

CHP Max Headend Optics Platform

CHP-OPTSWITCH-2-L

Dual Optical A/B Switch

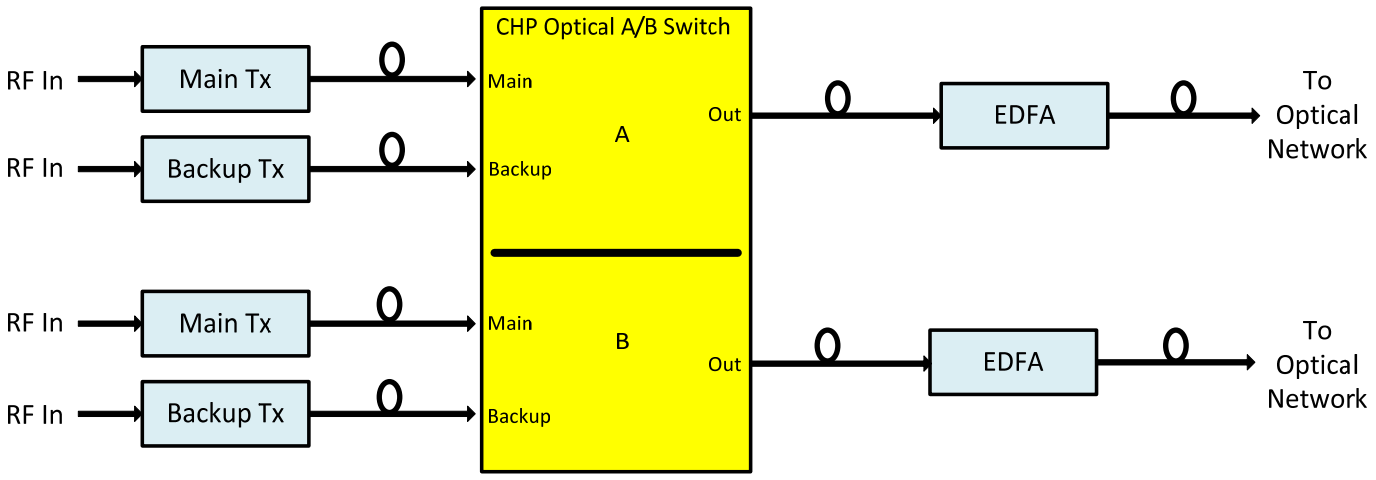
FEATURES

- High density to reduce footprint with a dual density, single slot unit with 2 independent switches
- Improve network services and customer Quality of Experience (QoE) with redundant rings and route diversity
- Very low power with less than 1 Watt typical consumption
- Automatic and manual switching using front panel pushbutton or remotely through the SNMP or CORView™ Element Management System (EMS)

The CHP Max optical switch provides operators with a reliable and rapid response to changing network conditions, enabling them to proactively identify and fix problems before they impact subscribers. Cable operators can expect a reliable and rapid response to changing network conditions with the CHP Max optical switch design that leverages the installed base of CHP Max5000® chassis, preserving deployed capital. Each channel of the Optical Switch Module accepts two optical signals ("A," the primary path, and "B," the backup path). The unit's microcontroller continuously monitors each fiber's optical signal power level and the adjustable optical trip threshold for each path.

Operators can configure the optical switch in Automatic or Manual Switch Mode. When configured for Automatic Switch Mode, the optical switch will automatically switch to the backup fiber path if the primary path falls below the optical switch threshold that is set by the operator. When optical power is restored to the primary path, the switch will automatically switch back to the primary path. When placed in Manual Switch Mode, the optical switch will remain on the path selected by the operator until the operator selects the other path or returns the unit to Automatic Switch Mode. Operators can select Automatic and Manual Switch Mode by using the unit's front-panel pushbutton switch, through the SNMP, or via CORView EMS.

Network Diagram



OPERATIONAL REQUIREMENTS

SMM	SMM-2 only
CMM	No
CHP Craft Software	No
CHP CORView/CORView Lite	V3.5 or later
Auto Configuration Supported	No

SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions[1]	1.25 in W x 3.4 in H x 18.5 in D (3.2 cm x 8.7 cm x 47.0 cm)
Weight	2.5 lb (1.3 kg)
Optical Connector Type	LC/APC
Environmental	
Operating Temperature Range[2]	0° to 50°C (32° to 122°F)
Storage Temperature Range	-40° to 70°C (-40° to 158°F)
Humidity	85% non-condensing (max)
Optical	
Operating Wavelength Range	1260–1610 nm
Input Optical Power Range	-20 to +20 dBm
Insertion Loss	< 2 dB
Optical Crosstalk	> 50 dB
Optical Return Loss	> 45 dB
Switching	
Switching Time	< 20 ms
Switch Type	Latching, Opto-Mechanical
Optical Switching Threshold Ranges	-20 to +18 dBm
Restore Time	0 to 10 minutes in 1 second increments
Power Requirements	
Power Consumption	1 W (Typical), < 2 W (max)

NOTES:
1. Includes handles and connectors.
2. Temperature measured at optical switch's module's air inlet.

ORDERING INFORMATION

Model Name	Description
CHP-OPTSWITCH-2-L	CHP Dual Dense Optical Switch LC/APC

RELATED PRODUCTS

CHP Chassis	Optical Patch Cords
Power Supplies	Optical Passives
Control Module	Installation Services

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

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Note: Specifications are subject to change without notice.

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