OMNISTAR® GX2

GX2-OSW10B
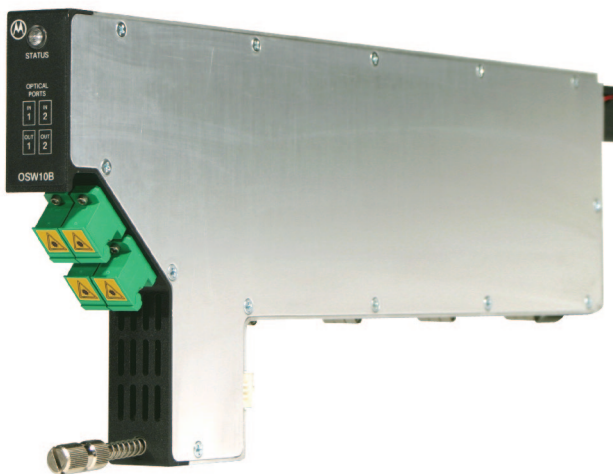*Optical Switch*

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Motorola's OmniStar GX2-OSW10B Optical Switch enables redundancy for HFC networks. It has a very wide input range so it can accommodate low-level signals often used for digital applications or high-level signals if located after an optical amplifier. The switch can be used in three configurations: the typical 2x1 configuration with a single output switched from two optical input signals, a 1x2 configuration with single input that switches to one of two outputs, or 2x2 configuration that switches between two inputs and two outputs. Integrated optical detectors provide constant monitoring of both inputs, eliminating the need for separate optical receivers. Two switching modes are provided automatic and manual. In automatic mode the GX2-OSW10B detects the presence of the selected optical signal and, if lost, switches to the alternate input source. In revert operation, the module switches back after a user-adjustable delay when the primary input signal returns. In non-revert operation, the alternate input source remains selected even if the primary input signal returns.

The compact, energy-efficient design allows up to 16 Plug-n-Play modules to operate in the four-rack unit OmniStar GX2 housing, preserving valuable headend space. Enhanced with PowerPC® technology, OmniStar GX2 introduces newfound intelligence to traditional headend equipment. The hot-swappable modules with unique embedded features like Quick-Swap Module Configuration maximize in-service time by eliminating the need for manual configuration.

The wide input power range and several control modes of the GX2-OSW10B Optical Switch enables redundancy for almost any application.

BENEFITS INCLUDE:

- Latching optical switch
- Wide input range: -29 dBm to +23 dBm
- Fast switching time
- 2X1, 1X2, and 2X2 configurations
- Automatic or Manual switching modes
- Non-Revert or Revert operating mode, with user-adjustable delay time
- Quick-Swap capability allows replacement modules to be automatically configured to prestored settings
- Operating temperature range from -20°C to +65°C
- Ethernet SNMP status monitoring through OmniStar GX2 control module

SPECIFICATIONS

OPTICAL

Operating Wavelength	1270 nm to 1630 nm
Operating Input Power Range	-29 to +23 dBm
Input Power Handling	+25 dBm, maximum
Insertion Loss, with connectors	2.0 dB, maximum
Switch Time	16 ms, maximum
Optical Return Loss	50 dB, minimum
Optical Crosstalk	-65 dB, maximum
Optical Connector Types	SC/APC or E2000 with optical safety shutter

GENERAL

Dimensions	1" W x 5.9" H x 15" D (2.5 cm x 15 cm x 38 cm)
Weight	2.0 lbs. (1 kg)
Mounting	GX2-HSG* Equipment Shelf
Operating temperature range	-20°C to +65°C (-4°F to +149°F)
Storage temperature range	-40° C to +80°C (-40°F to +176°F)
Power Consumption	2 Watts, maximum
Visual Interface	Tri-Colored Module Status LED
Status Monitoring	SNMP 10BaseT Ethernet interface through an RJ-45 port on the GX2-CM100B control module

Specifications are subject to change without notice.

Model Number	Description
GX2-OSW10B	Optical Switch, SC/APC optical connectors
GX2-OSW10B/E	Optical Switch, E2000 optical connectors

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