I-HUB

Optical Switch Modules

Optical Switch
(front view)

ATX's I-HUB-OS-C optical switch is a high performance dual-band switch typically used for primary to secondary redundant fiber switching.

Features

- 2x1 configuration
- Typical loss < 1.5 dB
- 1550nm and 1310nm operation
- Adjustable optical thresholds
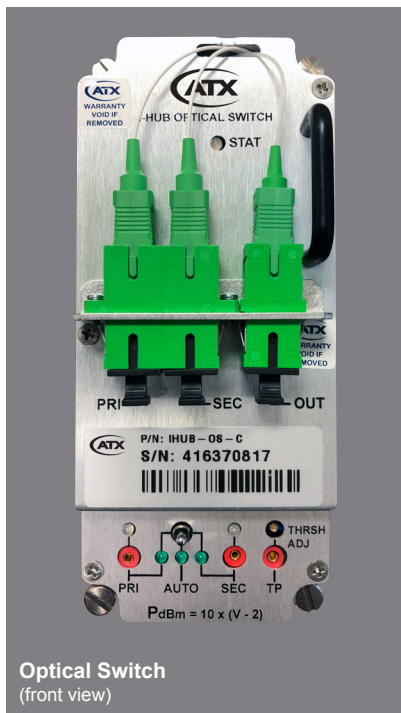- Input range -10 to +15 dBm

Applications

ATX's optical switch modules have been deployed for numerous applications including:
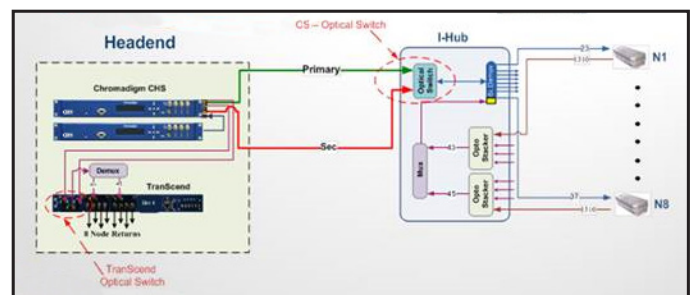
- Node segmentation
- Distribution networks
- RFoG applications
- FTTx networks

Key Benefits

- Ideal for networks with dual redundant fibers
- Handles both 1550nm and 1310nm

Optical Switch
(front view)

Block Diagram

Specifications

Optical Switch

OPTICAL INPUT		
INPUT POWER	**MINIMUM**	-10 dBm
	TYPICAL	0 dBm
	MAXIMUM	+15 dBm
WAVELENGTH		1550nm, 1310nm
OUTPUT POWER VARIATION OVER TEMPERATURE		± 0.2 dB
CONNECTOR TYPE		SC/APC
INSERTION LOSS		< 1.5 dB
POWERING		
POWER CONSUMPTION		5W
ENVIRONMENTAL		
OPERATING TEMPERATURE		-40°C to +65°C (-40°F to +149°F)
STORAGE TEMPERATURE		-40°C to +85°C (-40°F to +185°F)
HUMIDITY		Max. 85% Non-condensing
PHYSICAL		
DIMENSIONS		5.77"H x 2.5"W x 2.07"D (14.66H x 6.35W x 5.26D cm)
WEIGHT		0.5 lbs (0.227 kg)

Ordering Information

Part Number	Description
IHUB-OS-C	I-HUB Direction Sensitive, 2x1 Optical Switch Module for C-Band Applications, Direction Sensitive with an Input Range of -10 dBm to +15 dBm using SC/APC Connectors in a Single-slot I-HUB Module.