

- Automatic or Manual Switching
- Remote operation possible via SNMP manager
- Local Override switch
- DC to 2.9 GHz bandwidth
- Rapid Switching to allow signal continuity
- Adjustable signal level detection
- Locking switch circuit



The Model 2040 provides 1:1 redundant switching for Sat-Light™ Interfacility Link products, including the IF and L-Band product lines. The Model 2040 supercedes the Model 2000 Switch and is backward compatible, integrating into existing systems. The Model 2040's many features allow the operator to configure the product to meet demanding system requirements.

The Model 2040 can be controlled either locally or remotely. Foxcom's Apogee SNMP Management system set the switching state (remote/local) or transmission path (A/B). However, in the case of a fault in the SNMP manager, the user can override the SNMP manager and return to control locally via the front panel "override" switch.

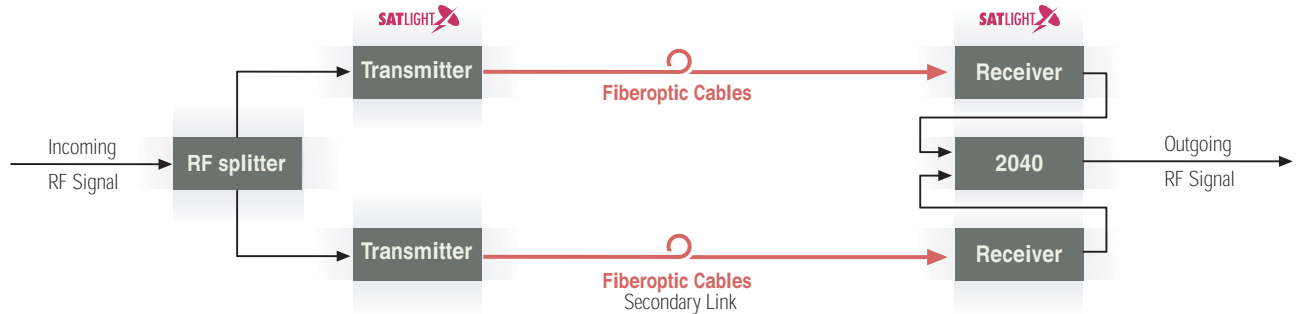
The Apogee manager graphically displays the active path. By activating a pin in the unit's interface 9-pin connector, the system operator can easily switch between Local and Remote control. Switching from the primary to redundant path can be performed by the Model 2040 manually or automatically. Note that when the unit switches to the redundant channel, it will lock and continue to transmit over that channel regardless of the input to the primary channel. The high reliability, high-frequency relay redundancy switch can be configured to detect faults in the RF signal, the optical signal, or both. In addition the user can set the threshold level at which the 2040 switch detects loss of RF signals.

The Model 2040 provides two methods to detect which channel is operating:

- 1/ Via a 3-pin Molex connector on the rear panel;
- 2/ Through the chassis via the 9-pin connector.

Redundant paths are configured using an RF splitter (Foxcom P/N 2X012) which transmits the RF signal to two Sat-Light transmitter modules. These modules are connected via singlemode fiberoptic cable to two Sat-Light receivers. Each receiver module connects to the Model 2040 via a supplied coaxial jumper cable. The Model 2040 then transmits the RF output signal to the end device.

A typical application using Model 2040



2040 - System Specifications

RF Specifications			
Frequency Response	DC – 950 MHz	950 – 2400 MHz	2400 – 2900 MHz
Flatness	± 0.2 dB	± 0.4 dB	± 0.7 dB
Insertion Loss (max.)	-0.6 dB	-1 dB	-1.5 dB
Input Impedance	50 or 75 Ohm		
Return Loss @ 50 Ohm (75 Ohm) (min.)	18 dB (18 dB)	18 dB (12 dB)	12 dB (9 dB)
Contact Resistance	100 milli-Ohm	100 milli-Ohm	100 milli-Ohm
Channel A/B Isolation (min.)	60 dB	40 dB	30 dB
Maximum RF Input	+20 dBm		
Switching Speed (max.)	10 mSec on / 10 mSec off		

Physical Specifications	
Operating Temperature	-20° C to 55° C
Storage Temperature	-40° C to 85° C
Maximum Humidity	85 %
Size	5.1" X 4.9" X 1.6"
DC Power	+15 VDC @ 100 mA (max.)

Connectors	
RF In/Out	F type, 50 or 75 Ohm BNC, SMA (user specified)
DC Signals	9 D-Type Male
Tests Ports	∅ 2mm
Monitoring Connector	3 Pin Molex (53048-0310)

Ordering Codes	
Model	Description
2040	1:1 Redundant Switch
-50	50 Ohm BNC Connector
-75	75 Ohm BNC Connector
-F	F type Connector
-SMA	SMA Connector
-CD	Channel Detect via 9-pin connector

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