



## Sat-Light Series

# Model 7050 | Fiber Optic Data Transceiver



## Features & Benefits

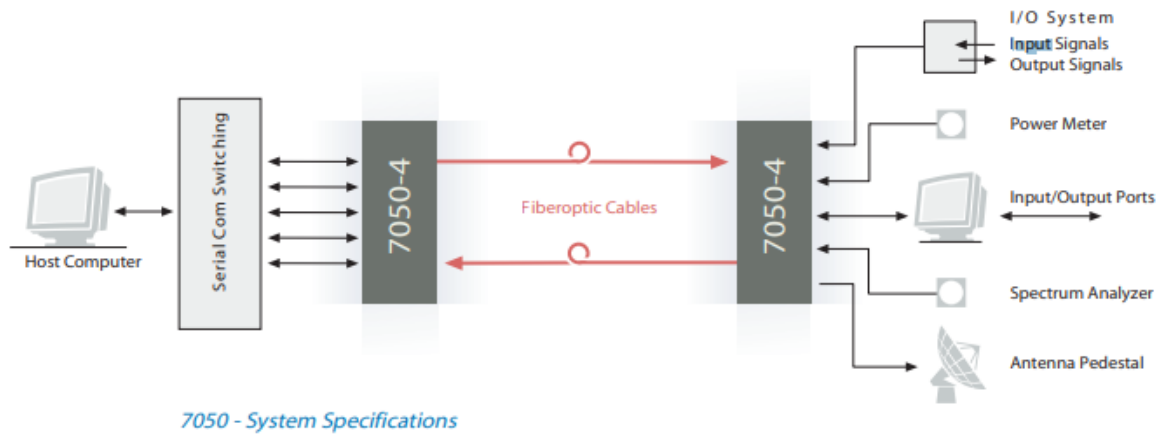
- Supports up to five bi-directional channels
- High bit rate uni-directional channel available
- Supports RS232/RS422/RS485 serial communication standards
- Enables local and remote system Monitoring and Control (M&C)
- Enables transferring Service Requested (SRQ) alarms from remote site to the Hub
- Up to 19.2 Kbps data rate per channel
- Very low Bit Error Rate (BER)

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## Product Description

Model 7050 is a complete duplex fiber optic link for data transmission. Model 7050 Fiber Optic Data Transceiver provides the capability to Monitor and Control (M&C) on-site communication equipment, such as testing and measuring equipment, redundancy switches, antenna pedestals, broadcast equipment, etc. Model 7050 enables the user to easily locate problems and choose pre-determined solutions. Model 7050 can have up to five asynchronous bi-directional serial communication channels. In addition, Model 7050 may be used for long distance asynchronous bi-directional serial communication, enabling remote M&C as well as transferring high rate time and frequency reference. Model 7050 units are connected via single mode fiber optic cables. Two fibers are required for the serial communication and one for the high-rate reference link. Data transmission protocols, such as RS-485 (standard), RS-422 and RS-232 (options), are supported. Alarms and LED's indicating system status are provided.

## Typical Application



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## 7050 System Specifications

Parameter	7050-1	7050-4
Number of Serial Data Channels	1	5
Serial Communication Channels	Asynchronous Bi-Directional RS485 (standard) / RS422/RS232	
Data Rate	Serial Link 19.2 Kbps per channel	
Serial Communication BER	10 <sup>-7</sup> Max	
Maximum Fiber Length	10 Km	
Data Connector	Serial Link 9P D Type per channel (male connector)	
Fiber Optic Connector	FC/APC	
Physical	7050-1	7050-4
DC Power	15VDC/350mA	15VDC/500mA
Size	1.6"/3U Plug-In	3.6"/3U Plug-In
EMC	ETS 300339	
Humidity	95%	
Operating Temperature	0 to 50 degrees Celsius	
Storage Temperature	40 to 85 degrees Celsius	

## Ordering Information

Model Number	Description
7050-1	1.6" Plug-In unit with one asynchronous bi-directional serial communication channels
7050-4	3.6" Plug-In unit with five asynchronous bi-directional serial communication channels
Option RS232 Interface	Add 232
Option RS422 Interface	Add 422