



## Sat-Light Series

# Model 2100 RF Amplifier



## Features & Benefits

- Covers the entire frequency band of Sat-Light products (10 - 2400 MHz)
- High gain output
- High output 1dB compression point: +15 dB
- Unity gain for long distance transmission

# Sat-Light Series

## Product Description

Model 2100 is a 75-Ohm 30 dB amplifier with a high first order intercept point and a high power output at the 1 dB compression point. Model 2100 covers the Sat-Light RF frequency range from 10–2400 MHz.

Model 2100 RF Amplifier provides the capability to integrate a pre- or post-amplifier as a part of the IFL system. Using Model 2100 enables a full system solution with guaranteed overall system performance over long distances. Used as a pre-amplifier, Model 2100 helps insure a high S/N. Used as a post amplifier, Model 2100 assures a constant high signal level. Using the 2100, the RSSI can be monitored via the DC voltage.

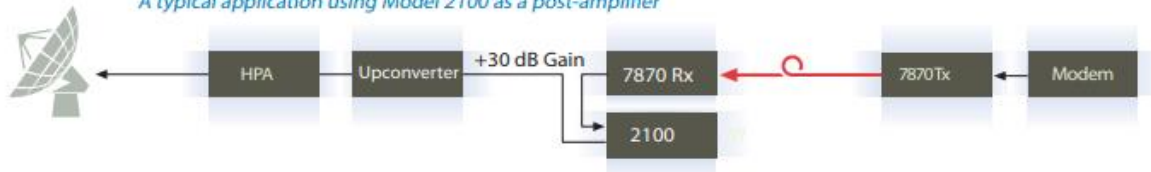
Global Foxcom's Sat-Light equipment is used as an Interfacility Link (IFL) in gateway sites, connecting hub equipment to remote antennas. Model 2100 RF Amplifier is one of the RF accessories for Sat-Light products, providing a complete solution for your link.

## Typical Application

*A typical application using Model 2100 as a pre-amplifier*



*A typical application using Model 2100 as a post-amplifier*



## 2100 System Specifications

<b>RF Specifications</b>			
Frequency Response	10–200 MHz	200–950 MHz	950–2400MHz
Gain	30 ± 2 dB	30 ± 2 dB	30 ± 2 dB
Flatness @ Full Band (typ.)	± 0.2 dB	± 0.5 dB	± 1.5 dB
Flatness @ any 100 MHz	± 0.1 dB	± 0.3 dB	± 1.0 dB
Return Loss (typ.)	18 dB	16 dB	13 dB
Po 1 db	8 dB (min)	10 dB (min)	12 dB (min)
Noise Figure	6 dB (max)	6 dB (max)	6 dB (max)
Group Delay	2 nsec (max)	2 nsec (max)	2 nsec (max)
Group Delay Variation @ any 36 MHz	± 0.1 nsec (max)	± 0.1 nsec (max)	± 0.1 nsec (max)
Maximum Input Power	+10 dBm		
<b>Physical Specifications</b>			
Operating Temperature	-20° C to +55° C		
Storage Temperature	-40° C to +85° C		
Maximum Humidity	95 %		
Size	5" X 4.9" X 1.6"		
DC Power	+15 VDC or 18 VDC @ 200mA (max)		

## Ordering Information

<b>Model Number</b>	<b>Description</b>
2100	Standard Unit (F-type connector)
50	50 Ohm BNC Connector
75	75 Ohm BNC Connector
SMA	SMA Connector