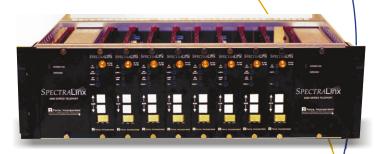
### Model 3070 Preliminary

## SPECTRALINX<sup>®</sup>

# 3000 Series Satellite IF 70/140 MHz Optical Link

- Transmits all video, audio, and data formats.
- Offers flat frequency response from 10 to 200 MHz.
- Three gain control modes: fixed, manual, and automatic.
- Modules are hot-swappable to ensure ease of replacement and system uptime.
- 1310 nm, 1550 nm, CWDM, and DWDM optics allow design diversity.



3RU Model 3070 IF 70/140 MHz Optical Link

The SPECTRALinx® Model 3070 IF 70/140 MHz Optical Link is designed to transport signals in the 10 to 200 MHz frequency range, specifically 70 or 140 MHz signals for satellite uplink or downlink applications. The Model 3070 offers the professional satellite operator high performance and a rich feature set while incorporating the latest in design philosophy. The Model 3070 provides the user with three modes of gain control (fixed, manual, and automatic) which allow the user to tailor the module input and output levels to maintain consistent performance. Available with 1310 nm, 1550 nm, CWDM, and DWDM optics, the Model 3070 can be configured to meet almost any design need. Gain control selection and adjustment as well as alarm and status indicators are available on the front panel. The 3RU Model 3000 chassis can house up to eight of the Model 3070 modules, along with redundant power supplies. The Model 3070 modules are hot-swappable helping to ensure easy replacement and guarantee system uptime. As part of the Series 3000 L-Band family, the Model 3070 provides the professional satellite operator a high performance solution for satellite communications.

Available through Multicom, Inc.

Ph: 407-331-7779 Toll Free: 800-423-2594 Fax:407-339-0204 www.multicominc.com multicom@multicominc.com

#### **Preliminary**

#### Optical and Performance Characteristics?

<del>-</del> '				
	Mx	Тур		Units
Optical Wavelength	1310 nm,	1550 nm	, CWDM,	DWDM
Optical Output Power		+3		dBm
Receiver Optical Input Range	-15		+3	dBm
Optical Loss Range	0		18	dB
Frequency Range	10		200	MHz
Flatness	±0.	2 dB @	any 36 M	Hz
	± 1	.0 dB @	full band	
VSWR (75 Ohm)		1.1:1		
IMD			-50	dBc
CNR (min)	55 d	B @ 1 M	Hz / 30 k	m
Input Signal Range	-50		-20	dBm
(Total Power)				
Output Signal Range	-41		-10	dBm
(Total Power)				
Gain Stability (@ 24 hrs)	-0.25		+0.25	dB
Link RF Gain	-21		+40	dB
OIP3	+13			dBm
Noise Figure (-20 dBm in,				
max. optical loss)			40	dB
Noise Figure (-50 dBm in,				
max. optical loss)			16	dB
Group Delay (20-200 MHz)		1	2	ns

#### Ordering Information\*

Several part numbers must be specified when ordering this product. A full link includes part numbers for the transmitter module, the laser cartridge, the receiver module, and the 3RU rack chassis and chassis power supply as listed separately below. Contact Force, Inc. for complete part numbers.

#### ransmitter Module P/N

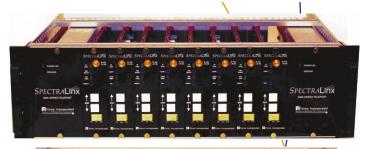
3070TA-NNSP	Tx, 75 $\Omega$ , SM, SC/APO
3070TB-NNSP	Tx, 50 $\Omega$ , SM, SC/APO

#### Laser Optics Cassette

3070LA-SCNN	Laser Cartridge, SM, 1310 nm
3070LA-SDNN	Laser Cartridge, SM, 1550 nm
3070LA-C-SDAP/ZZ**	Laser Cartridge, SM, CWDM
3070LA-D-SDAP/ZZ***	Laser Cartridge, SM, DWDM

#### Electrical, Environmental, and Physical Characteristics\*

	Min	Тур	Max	Units
Operating Temp. Range	-40		+45	°C
Storage Temp. Range	-40		+60	°C
Humidity	5		95	%
Supply Voltage	120		240	$V_{AC}$
Supply Current		100		mA
Fuse Rating (Slow Blow)		2.0		Α
Module Weight		8		OZ.
Power Supply Weight		2.5		lbs.
Chassis Weight (empty)		6.0		lbs.
Module Dimensions	5.06	x 1.39 x	12.00	in.
Power Supply Dimensions	5.05	x 2.80 x	12.00	in.
Chassis Dimensions	5.25	x 19.00 x	12.00	in.





#### 3RU Model 3070 Transmitter and Receiver Front and Rear Views

#### Receiver P/N

3070RA-SFSP	Rx, 75 $\Omega$ , SM, 1310/1550 nm, SC/APC
3070RB-SFSP	Rx, 50 Ω, SM, 1310/1550 nm, SC/APC

#### BRU Chassis P/N

3000CA-NN	Chassis, 3RU, Slots for Two Power Supplies
3000UA-NN	Power Supply, 3RU, Universal AC
3000EA-NN	Blank Panel, 3RU, for Unused Module Slot
3000EB-NN	Blank Panel, 3RU, for Unused Power Supply Slot

<sup>\*</sup>System performance specifications indicated for use with 9/125  $\mu$ m single-mode fiber.

#### Available through Multicom, Inc.

<sup>\*\*</sup>The "ZZ" in the part number specifies one of eight CWDM wavelengths:/47 = 1471 nm, /49 = 1491 nm, /51 = 1510, /53 = 1531, /55 = 1551 nm, /57 = 1571 nm,

<sup>/59 = 1591</sup> nm, or /61 = 1611 nm

\*\*\* The "ZZ" in the part number specifies one of 16 DWDM wavelengths, based on the ITU channel number associated with that wavelength: /22, /23, /24, /26, /27, /28, /29, /30, /31, /32, /33, /34, /35, /36, or /37