

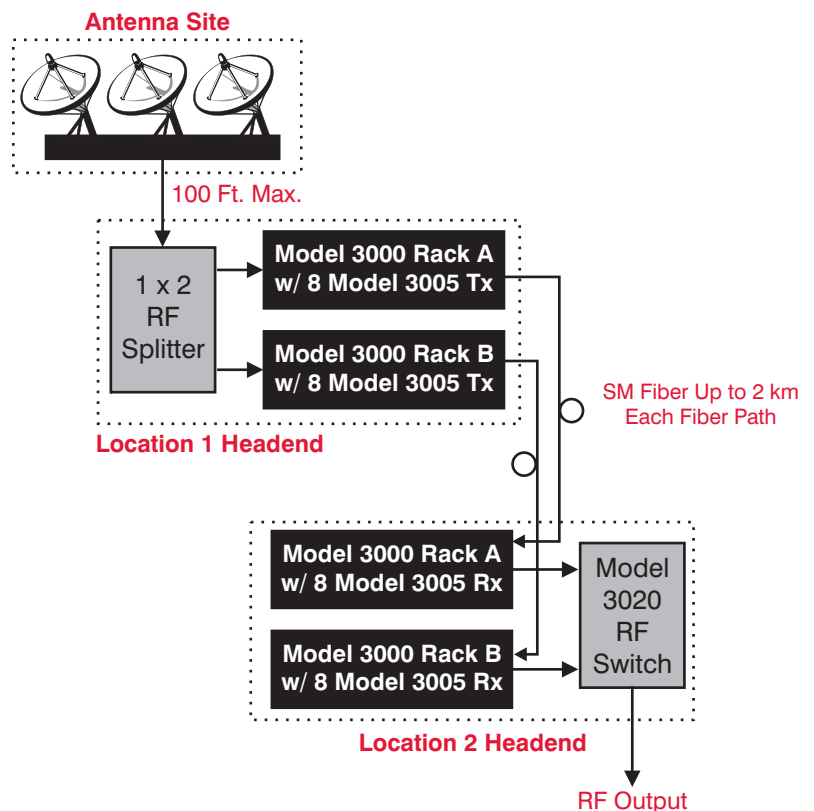
DBS L-Band Transport

- Model 3005Pro transports the full L-Band spectrum (950-2200 MHz) as a standard feature.
- LNB power is user-selectable as +13 Volts, +17 Volts, or disabled; current limiting technology eliminates down time due to blown fuses.
- 75 Ohm operation.
- Short or long distance transmission.



Model 3005PRO L-Band Transport Link

The Model 3005PRO L-Band Satellite Transport System provides an economical solution for transporting digital signals for numerous satellite distribution applications, including headend relocation. The system utilizes a cost-effective coax cabling configuration to distribute the RF signals from the dish to the transmitter and from the receiver to the headend. The transmitter has the ability to supply LNB power at the remote dish site, thereby decreasing the need and expense of additional equipment. A front panel mounted switch allows the user to select between +13 Volts and +17 Volts or disable the LNB power. RF alarm and indicator LEDs allow for a quick assessment of the link's operational status. The Model 3005PRO L-Band Transport System, whether used in an antenna remoting application or in a satellite distribution role, provides for transmission of the entire L-Band spectrum in a simplified, flexible installation environment at one of the lowest costs found in today's market.



Specifications and Ordering Information

Optical and Performance Characteristics

	Min	Typ	Max	Units
Laser Wavelength		1310		nm
Laser Output Power	+2	+3	+4	dBm
Rx Optical Input Power	-20		+4	dBm
Tx Input RF Return Loss		13	10	dB
Rx RF Output Return Loss		20	15	dB
System Gain (0 dB Opt. Loss)	18	20	22	dB
System Gain variation over temp	-2		2	dB
Amp. Flatness (950-2150 MHz)	+/-1	+/-1.5		dB
Group Delay (950-2150 MHz)		0.5	1	ns
Noise Figure (0 dB opt. loss)		22	24	dB
Noise Figure (9 dB opt. loss)		31	35	dB
Tx RF Input Range	-60		-15	dBm
Input RF Compression Point		-8		dBm
Output RF Compression Point		+11		dBm
Intermodulation Distortion*		-50	-40	dBc

*Two -25 dBm tones @ 1000,1001 MHz

Electrical Characteristics

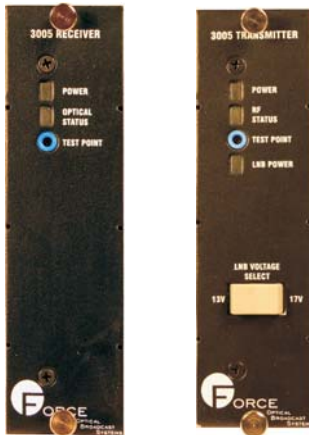
	Min	Typ	Max	Units
Supply Voltage		+20		V _{DC}
Supply Current (Tx, No LNB)		100		mA
Supply Current (Rx)		100		mA

Physical Characteristics

	Min	Typ	Max	Units
Weight (Tx or Rx)		8 227		oz. g
Dimensions (Tx or Rx)	5.06 x 1.39 x 12.00 129 x 35 x 305			in. mm

Environmental Characteristics

	Min	Typ	Max	Units
Operating Temp. Range	-40		+60	°C
Storage Temp. Range	-40		+60	°C
Humidity (RH, non-condensing)	5		95	%



**Model 3005PRO Transmitter and Receiver
Front Panels**

Short Range Tx and Rx P/N

3005 Tx and Rx Options	SC/APC Conn.	FC/APC Conn.
TX, 75 Ohm, 1310 nm, LNB Pwr.	3005SP-T-1310-SA	3005P-T-1310-FA
Rx, 75 Ohm, 1310/1550 nm	3005P-R-SA	3005P-R-FA

*System performance specifications indicated for use with 9/125 μm single-mode fiber.

3RU Chassis and all Power Supplies

Chassis, Power Supply and Panel Options	Part Number
3RU Chassis, Holds 8 Modules and 2 P.S.	3000CB-NN
3RU Power Supply, Universal AC	3000UC-NN
3RU Blank Panel for Unused Module Slots (optional)	3000EA-NN
3RU Blank Panel for Unused P.S. Slot (optional)	3000EB-NN



FORCE
OPTICAL BROADCAST SYSTEMS

825 Park Street, Christiansburg, VA 24073
USA (800) 732-5252 • TEL (540) 382-0462 • FAX (540) 381-0392
csr-sales@forceinc.com • www.forceinc.com