

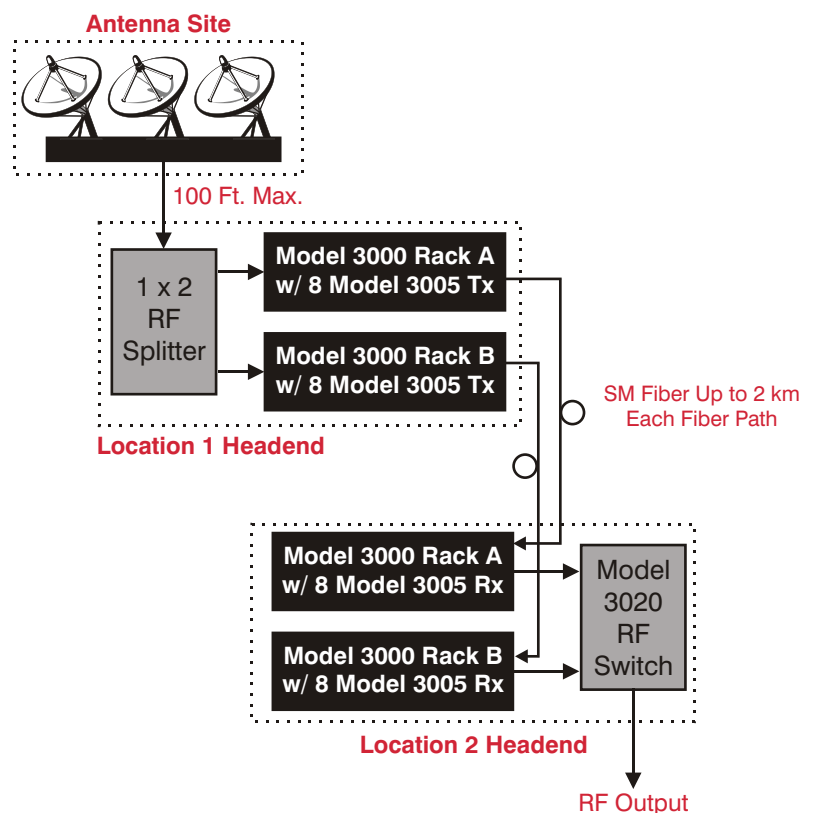
### DBS L-Band Transport

- 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

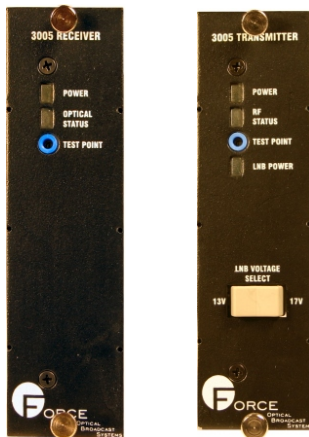
|                             | Min | Typ | Max | Units           |
|-----------------------------|-----|-----|-----|-----------------|
| Supply Voltage              |     | +20 |     | V <sub>DC</sub> |
| Supply Current (Tx, No LNB) |     | 100 |     | mA              |
| Supply Current (Rx)         |     | 100 |     | mA              |

## Physical Characteristics

|                       | Min                                   | Typ      | Max | Units     |
|-----------------------|---------------------------------------|----------|-----|-----------|
| Weight (Tx or Rx)     |                                       | 8<br>227 |     | oz.<br>g  |
| Dimensions (Tx or Rx) | 5.06 x 1.39 x 12.00<br>129 x 35 x 305 |          |     | in.<br>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. | 3005P-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   |



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