

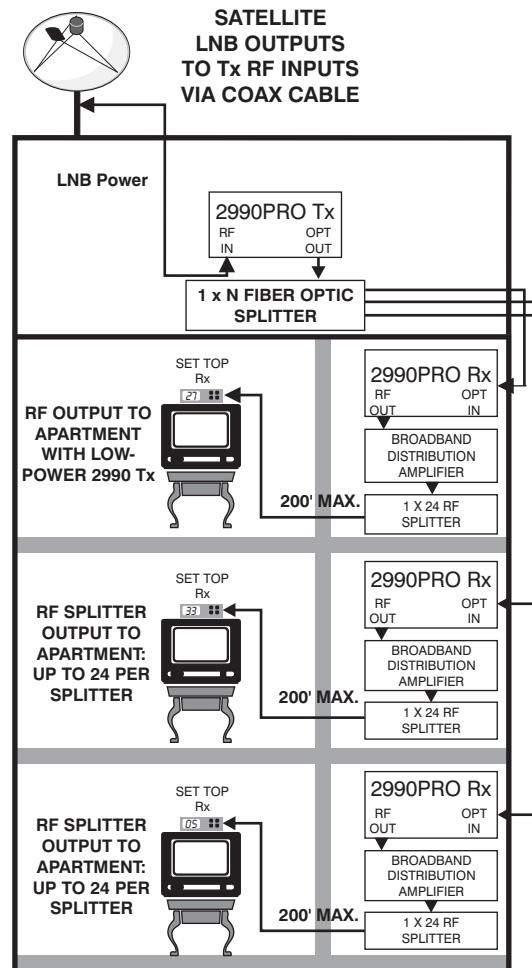
DBS L-Band Transport

- Model 2990 transports the full L-Band spectrum (950-2200 MHz) as a standard feature.
- LNB power uses current limiting technology. The unit resets itself, eliminating down time due to blown fuses.
- 75 Ohm models are packaged in a rugged stand-alone enclosure.
- System transmits signals in excess of 35 km and increases the system's value for antenna remoting.
- Side panel LNB switch toggles the unit between +13V, Off and +17V.



Model 2990PRO: Stand-alone Transmitter and Receiver

The Model 2990PRO L-Band Satellite Transport System provides an economical solution for transporting digital signals for numerous satellite distribution applications, including headend relocation, and distribution of digital broadcast systems (DBS). 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 single-mode optical fiber between the 2990PRO transmitter and receiver allows transmission distances to 35 km at 1310 nm. Furthermore, using LNB power from the transmitter decreases the need for additional equipment at the dish site. RF alarm and indicator LEDs allow for a quick assessment of the link's operational status. The Model 2990PRO L-Band Transport System, whether used in an antenna remoting application or in a satellite distribution role, provides for transmission of the entire DBS spectrum in a simplified, flexible installation environment at one of the lowest costs found in today's market.



Typical MDU Application

Provided by: Mega Hertz 800-883-8839 sales@go2mhz.com www.go2mhz.com

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 MH

Electrical Characteristics

| | Min | Typ | Max | Units |
|-----------------------------|-----|-----|-----|-----------------|
| Supply Voltage | +23 | +24 | +25 | V _{oc} |
| Supply Current (Tx, No LNB) | | 100 | | mA |
| Supply Current (Rx) | | 100 | | mA |
| Max LNB Current Draw | 0 | | 300 | mA |

Physical Characteristics

| | Min | Typ | Max | Units |
|------------|--------------------|------|-----|-------|
| Weight | | 12.8 | | oz. |
| | | 363 | | g |
| Dimensions | 5.25 x 2.56 x 1.25 | | | in. |
| | 133 x 65 x 32 | | | 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 2990PRO: Stand-alone Receiver and Transmitter

Ordering Information

| DBS Tx and RX Options | Stand-alone |
|----------------------------------|-----------------|
| Tx, LNB Power, SC/APC Connectors | 2990P-T-1310-SA |
| Rx, SC/APC Connector | 2990P-R-SA |

*FC/APC connector option available



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