

FLO-1601

L-Band to Fiber Transmitter



Space-saving, modular platform for advanced signal processing.

The FLO-1601 is a fiber optic transmitter from Grass Valley, a Belden Brand, that allows an L-band satellite signal to be sent over a single-mode fiber. The fiber transmission is totally protocol transparent and the FLO-1601 maintains high signal fidelity over the whole transmission.

The FLO-1601 accepts a wide range RF level input and provides automatic gain control (AGC), thus ensuring a nominal RF output level regardless of the RF power received at the input. Moreover, the FLO-1601 can provide optional LNB powering via the RF input port and also outputs a copy of the RF signal, for monitoring or distribution purposes. The optical transmission relies on a high performance DFB laser, which is ideal for short or medium-haul applications.

The FLO-1601 can be controlled and monitored remotely using the iControl software. Parameters such as RF input presence, RF level or optical output presence can be reported.

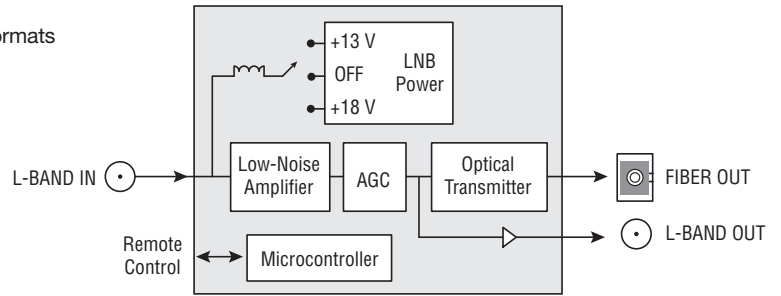
When used in conjunction with its L-band fiber receiver companion (FOL-1601), the FLO-1601 is the ideal solution for satellite applications that require a short terrestrial extension.



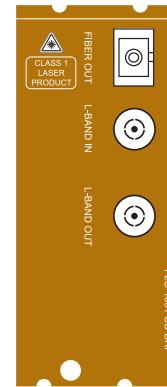
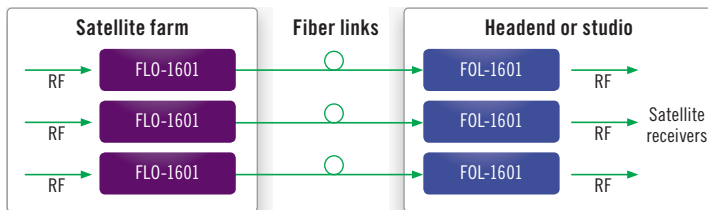
FLO-1601 L-Band to Fiber Transmitter

KEY FEATURES

- Broadband operation: RF input range from 950 MHz to 2150 MHz
- Protocol transparent: transmits all video, audio and data modulation formats
- RF monitoring output
- Automatic gain control
- High performance DFB laser
- Single-mode fiber, SC/APC connector
- LNB power: OFF/+13V/+17V
- Remote monitoring and control



FLO-1601-Functional Block Diagram



FLO-1601-SC-DRP

SPECIFICATIONS

RF Input

Connector: Type-F
Impedance: 75Ω
Return loss: >10 dB across frequency range 950 to 2150 MHz
Freq. range: 950 to 2150 MHz
Signal formats: Protocol transparent
AGC hold range: -20 dBm to -55 dBm
Power range: -20 dBm to -60 dBm
AGC alarm threshold: -55 dBm

RF Monitoring Output

Connector: Type-F
Impedance: 75Ω
Return loss: >10 dB across frequency range 950 to 2150 MHz
Frequency range: 950 to 2150 MHz
Power range: Tracks input
Gain flatness: ±1.5 dB at 950 to 2150 MHz

Optical Output

Connector: SC/APC
Fiber type:
 Single-mode 9/125 μm fiber complying with ITU-T recommendation G.652, TIA/EIA-492CAAAA, IEC publication 60793-2 and GR-20-CORE requirements
 Maximum attenuation of 0.4 dB/km (0.62 mi.) at 1310 nm
Laser type: 1310 nm DFB Laser
Polarity: Non-inverting
Output power: 3 dBm ±1 dBm

Electrical

Power: 10W

ORDERING

Densité 2 frame	Densité 3 frame	Description
FLO-1601	FLO-1601-3RU	L-band to fiber transmitter
FLO-1601-SC-DRP	FLO-1601-SC-DRP-3RU	Double rear connector panel

Remote control
 iControl, iControl Solo, RCP-200



GVB-1-0375A-EN-DS

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