

The 2406LR is a fiber optic receiver for signals in the satellite L-Band and other frequency ranges. It accepts a single fiber optic input on an FCAPC connector and provides a pair of equal power electrical outputs. Packaged in a small, standalone enclosure, the 2406LR is temperature-hardened and ideal for mounting on or near antenna structures, or in any application where modular/rack-mount products are not practical. The –WP version features dust and water protection for direct outdoor mounting without a secondary enclosure. When combined with the 2408LT a bi-directional link can be created, ideal forVSAT and similar applications.

Two gain modes are provided for flexible output level adjustment to suit the requirements of the coaxial distribution system and the connected equipment. Manual gain mode allows a fixed gain level to be applied to the output signal.AGC mode allows the user to set a target output level, and the 2406LR's microprocessor will automatically apply the correct amount of gain to maintain that level. Comprehensive local LED indicators provide instant information relating to optical input, DC power input and RF output levels.

## Features

- Mounts directly to the antenna structure or other outdoor locations
- -WP option provides a weatherproof version of the product
- Wide bandwidth allows use with L-Band, over-the-air DTV and other frequency ranges
- Protocol independent design passes all modulation formats
- Dual, full power outputs
- Tri-color LED status indicators for optical input, DC input and RF output levels
- Flexible powering options including power brick (+PS option), 2400PSU-8 or customer's own 11-20V DC source

- Fiber link provides electrical isolation between antenna and facility, mitigating ground loop and lightning issues
- Fiber transport offers increased signal quality over coax at longer distances and is not prone to high-frequencyrolloff
- Applications
- L-Band over fiber transport to L-Band upconverter for uplinks
- VSAT and other bi-directional signals
- Portable antenna deployment
- Any RF fiber receive application requiring a standalone device

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## Specifications

RF Outputs		
Number of Output	<b>s</b> 2	
Connector	F-Type (50Ω BNC optional)	
Conductor Range	23-18 AWG (0.26-0.82 mm²)	
I/O Impedance	75Ω (50Ω optional)	
	Frequency Range	
2406LR	120MHz - 3GHz	
2406LR-H	120MHz - 2.3GHz	
Return Loss	120MHz to 2.3GHz > 15dB 2.3GHz to 3GHz > 12dB	
Output IP3	+28dBm	
IMD	< -55dBc at -3dBm output and 25dB gain	
	Output Signal Level	
Manual Gain	0 to -60dBm (depending on input signal level, gain setting and optication	al loss
AGC Mode	-10 to -40dBm (adjustable, maintainable within available gain range)	
Available Gain	-6dB to +24dB in 2dB steps	
	Optical Input	
Number of Inpu	ts 1	
Connector	Female FC/APC	
<b>Operating Wavele</b>	ngth 1270nm-1610nm	
	Maximum Input Power	
2406LR	+3dBm	
2406LR-H	-7dBm	
	Optical Sensitivity	
2406LR	-14dBm @ 35dB C/N on a 36MHz carrier	
2406LR-H	-20dBm @ 35dB C/N on a 36MHz carrier	
	DC Input	
Voltage	+18V DC nominal, +11V DC to +20V DC range	
Connector	F-Туре	
Conductor Range	23-18 AWG (0.26-0.82 mm2)	
	Physical	
Dimensions 5.4"L (138m	x 2.4"W x 1.2"H (with flanges) nm L x 61mm W x 31mm H)	
	Environmental	
Temperatu	annannannannannannannannannannannannann	
Dust and Water Pi	otection IP65 compliant (-WP version only)	



Page 3