## AFL-8500 High Speed Fiber Optic Link



## AFL-8500 High Speed Fiber Optic Link

The AFL-8500 is an enhanced Fiber Optic Transmission product family used for transferring one or two analog channels + 32 digital channels in each direction.

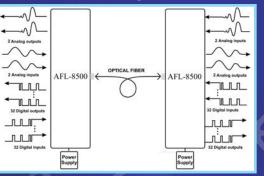
Each unit has Analog and Digital I/O pins. Units are connected back-to-back (i.e. 2 units of the same type, where the signals input to one unit will come out through the outputs of the other unit) using a single optical fiber for both directions.

The product is based on A/D and D/A technique, combined with a powerful 1.25 GHz transceiver, for ranges of up to 60 Km, at analog bandwidth of up to 5 MHz, at 14 bit resolution (80 dB S/N ratio) and digital I/O bandwidth of 2 MHz.

## Applications:

Block Diagram

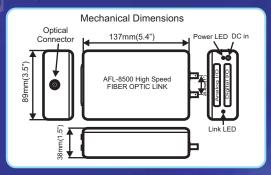




## Specifications:

Analog Inputs: Input Voltage Range: +/-10V standard, +/-5V or +/-1V optional. Sampling resolution: 16 Bit. Noise and hum induced in input: 5mV Sampling method: True Simultaneous sampling. Analog Outputs: Output Voltage Range:+/-10V standard, +/-5V or +/-1V optional. Resolution: 16 Bit. Bandwidth: 2 channels @2.5 MHz. or 1 channel @5MHz. Digital Inputs and outputs: Number of I/O signals: 32 Inputs + 32 Outputs. Sampling Rate: 10MHz. per I/O, Simultaneous sampling. Digital I/O signals can be combined with RS-232 or RS-485 drivers for bi-directional signals. **Optical Fiber:** Up to 30 Km. of Single Mode Fiber with ST connectors. 60 Km. Range is optional. Link Rate: 1.25Gb/Sec. Fiber Type: Single Mode, 9/125 micron with ST connectors

Supply: 10 - 14V @1.5A max.





www.lab-systems.com

Head office: 33 Hayetzira st. Ramat-Gan 52521, ISRAEL,Tel:972-3-5756327/8 Fax:972-3-5756326 U.S.A office: 9 Blossom Drive, Kennett Square, PA19348, Tel:(302)478-2881 Fax:(610)444-5544