

MILITARY

- Laser Rangefinder Receivers
- Multi-Channel Sensor Arrays
- Next Generation Military Sensors
- Quadrant Tracking Detectors/Processors
- OEM Assemblies Receiver and Signal Processing Electronics

INDUSTRIAL & SCIENTIFIC

- Transimpedance, Voltage, and Logarithmic Amplifiers
- Photodetector-Amplifier Modules
- OEM Low Noise Amplifiers
- Temperature Compensated Detector Biasing High-Voltage Supplies

MEDICAL

- Logarithmic Amplifiers
- Laser Energy Monitors
- High-Voltage Detector Bias Supplies
- Fast Peak and Hold Pulse Stretchers



Founded in 1979, Analog Modules, Inc. is an ISO 9001 certified company located in Longwood, (Orlando) FL. Sixty-five full-time employees are involved in design, development, and manufacturing. AMI produces a wide range of stand-alone and OEM analog electronic products for the laser and electro-optics industries. These products serve applications in medical, military, scientific, and industrial markets. As a company, AMI is committed to the production of high quality, reliable products and total customer satisfaction.

For comprehensive technical information, visit our website or call to discuss your application.

Sensors and amplifiers manufactured by AMI include hybrid laser rangefinder receivers and counter modules, quadrant tracking detectors/processors, linear and logarithmic amplifiers, pulse stretchers, fiber-optic links, and photodetector-amplifier modules.

AMI also offers a complete line of laser electronic products including capacitor charging power supplies, simmer supplies, Pockels cell drivers, CW arc lamp drivers, pulsed flashlamp drivers, and high-power laser diode drivers. These products are available in a variety of packages, from OEM modules to stand-alone turn-key systems. Many of these products are certified to EN/IEC 60601-1-2:1993 as well as UL2601.

Warranty

AMI warrants its products against defects in material and workmanship for a period of twelve (12) months after shipment. This warranty does not cover abuse, unauthorized modifications, improper application or installation, accidental damage or negligence in use or handling. Contact AMI for full warranty details.

-  Laser Rangefinder Receivers/Counters
-  Quadrant Tracking Detectors/Processors
-  Photodetector-Amplifier Modules
-  Low Noise Amplifiers
-  Fiber-Optic Links
-  High Voltage Bias Supplies

For Military, Medical, Industrial, and Scientific Applications

Ultra High Gain Low Noise Amplifiers

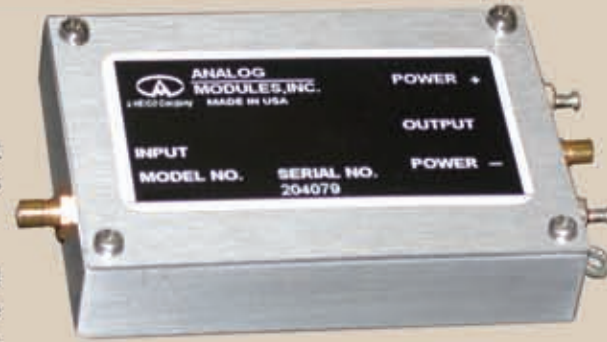
Transimpedance Amplifiers

Analog Modules, Inc. offers a range of transimpedance amplifiers that combine low noise, high gain and large dynamic range. These devices are ideal for use with PIN and APD photodetectors.

The 311 & 341 Series are state-of-the-art precision amplifiers designed for current source input applications in which high gain and low noise are required. These amplifiers offer gains as high as 1GV/A with as little as 7fA/Hz noise at the input. AC and DC coupled options are available.

The 312 Series are ultra low noise, high gain, GaAs FET amplifiers designed for low level current input applications in which high gain is required. The bandwidth of these AC coupled amplifiers extend up to 100MHz.

The 313 Series is a state-of-the-art bipolar amplifier designed for current source input applications in which high gain and low noise are required. The design is optimized for high-speed response and has a lower input impedance than AMI's other transimpedance amplifiers, permitting operation with higher capacitive sources.



Photodetector-Amplifier Modules

The 710 Series are high sensitivity, low noise photodetector-amplifier modules that offer the flexibility of incorporating a variety of silicon or InGaAs, PIN or APD photodetectors. AMI also offers the capability of integrating other detectors on a custom basis.

High Voltage Bias Supplies

The Model 520 Series are low noise power supplies designed for photodetector biasing applications. Output voltages up to 800V are available in two polarities. The compact size and shielded metal case make the Model 520 Series attractive for a variety of low noise biasing applications. The 523/524 versions are compact, hermetically sealed, designed for very low noise and ideal for military APD biasing applications.



DC Coupled Fiber-Optic Link

The 732T/R Fiber-Optic Link is designed for short-haul transmission of electrical signals for applications in which using electrical conductors are not appropriate. The 732T/R provides transparent transmission of AC and DC information without the undesirable effects of EMI pick-up noise. Units are sold as a transmitter/receiver pair.

Voltage Amplifiers

Analog Modules, Inc. designs and manufactures a range of voltage amplifiers that are designed to complement our transimpedance amplifiers. AMI's amplifiers combine low noise, high gain, large dynamic range and small package size.

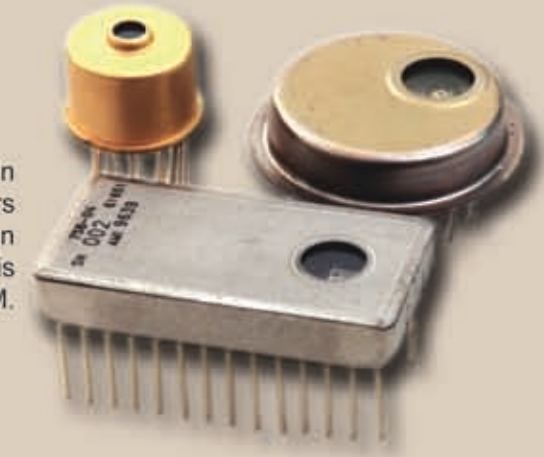
The 321 and 351 Series are AC or DC coupled ultra low noise voltage amplifiers designed for instrument and transducer applications in which high gain and low noise are required. Both low and high input impedances are available.

The 322 Series are high gain, low noise bipolar voltage amplifiers designed to be used with instruments and transducers with low source impedances. Other models are available with bias supplies suitable for MCT detectors (-MCT option, consult factory for price and availability).

The Model 353 is a low noise voltage amplifier designed for instrument and transducer applications in which high bandwidth and low noise are required.

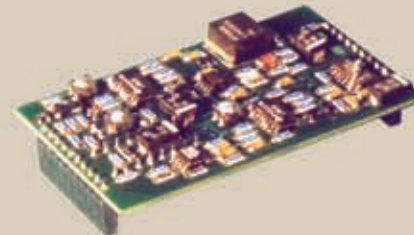
Laser Rangefinder Receivers

The 750 Series Receivers are designed for laser ranging applications in which high sensitivity and fast recovery are required. AMI's hybrid receivers are designed to meet MIL-STD-883D requirements. Either a silicon avalanche photodiode (APD) or an InGaAs PIN photodiode or APD is available to accommodate pulsewidths ranging from 400ps to >30ns FWHM.

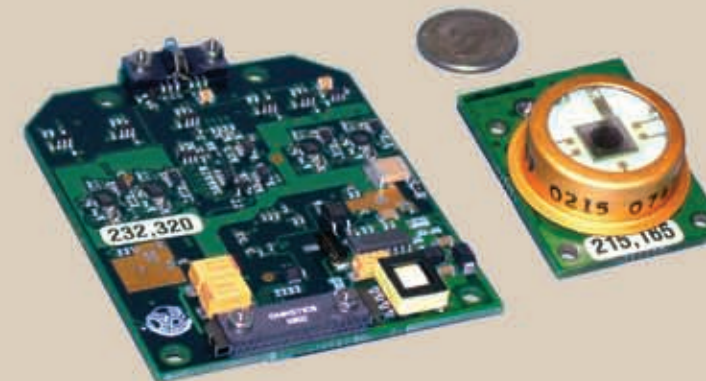


Logarithmic Amplifier

AMI's Model 384 provides high-speed logarithmic signal compression from microvolts to volts with exceptional linearity. Both positive and negative polarity information may be processed over a wide range of duty cycles. A null correction loop is available to minimize offset variations.



Laser Spot Trackers



The Model 742DP is a new generation of laser spot tracker with exceptional flexibility for missile and platform tracker applications. The detector is temperature controlled and optimized for 1.06µm. Independent five channel noise detectors set the lowest thresholds to achieve long acquisition ranges for different background light and spot positions and special circuits resist sunlight blinding in any one or all quadrants. A range of N-type custom-designed detectors gives the highest performance at 1.06µm. A separate substrate allows the detector size or type to be optimized for your application. The individual channels are digitized with a high-speed A-D converter and output as a serial digital interface for steering. An adaptive threshold control allows optimum signal-to-noise operation and power management is used to reduce power consumption.

Fast Peak Pulse Stretcher

The Model 611A Pulse Stretcher outputs DC levels equal to the peak value of a single narrow pulse down to 20ns FWHM. Fast independent resets facilitate processing of complex multiple events. The DC output level allows for post processing at slower speeds.

