

Linear InGaAs Optical Receiver Lab Buddy with Automatic Gain Control up to 56 Gbaud

RECOGNIZED IN THE MILITARY AND AEROSPACE ELECTRONICS INDUSTRY, DISCOVERY SEMICONDUCTORS DOES NOT FAIL TO DELIVER WHEN IT COMES TO THE DSC-R421.

The DSC-R421 is a linear PIN + transimpedance amplifier that is primarily designed for 4-level Pulse Amplitude Modulation (PAM 4) and NRZ-ASK (PAM 2) modulation formats up to 56 Gbaud symbol rate in 1310 nm and 1550 nm single-mode systems. The R421 offers a variety of user-adjustable characteristics such as mode of operation (AGC or manual gain control), RF gain, output amplitude, and bandwidth.

The DSC-R421 is available in Discovery's computer-controlled Lab Buddy instrument, where several critical parameters can be controlled and monitored locally or remotely using Standard Commands for Programmable Instruments (SCPI) compatible commands via standard RS232C-over-USB interface. The DC photocurrent can be monitored continuously over a nano-ampere (nA) to milli-ampere (mA) range on the Lab Buddy's digital display or via a custom GUI provided by Discovery. Additionally, the GUI can be used to control different functions of the DSC-R421 Lab Buddy.

DSC-R421 is available in a standalone Lab Buddy, or as a line card in our Configurable Lab Buddy platform.

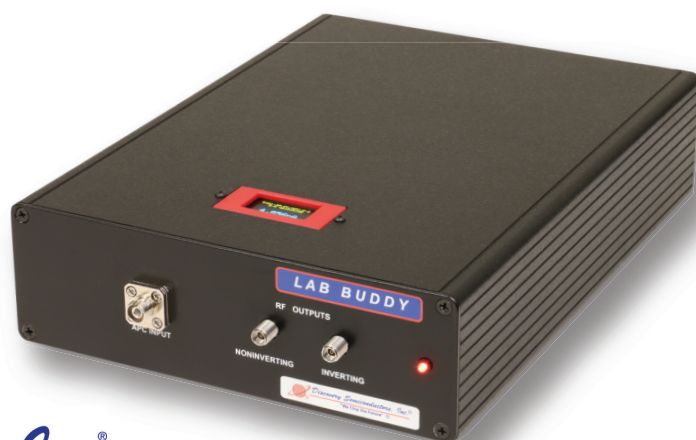
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OPERATING FEATURES

- Two modes of operation: AGC or manual gain control
- Differential conversion gain up to 3000 V/W
- High responsivity at 1310 nm and 1550 nm
- Maximum differential RF output >500 mVpp
- Low optical PDL (0.05 dB typical)

APPLICATIONS

- Ideal test and measurement optical front-end
- Ethernet: 400 GbE, 800 GbE
- InfiniBand EDR, HDR, and NDR
- Direct detection for PAM4 and NRZ-ASK.
- Fiber Channel: 32GFC, 64GFC, and 128GFC
- RF-over-fiber link



【販売代理店】

 **サンインストルメント**

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