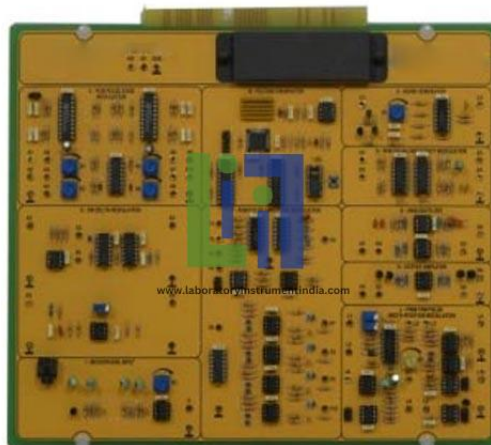




Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Digital Modulation Demodulation

**Product Code :**  
LBNY-0005-1900002



#### **Description :**

With this board the students can study the operating principle of the digital communications using the most common techniques such as PCM modulation, PFM modulation, PAM modulation, PWM and PPM modulations and finally the DM modulation with the aid also of a signal of noise, of analog filters and output amplifiers. The design and construction of electronic circuits to solve practical problems is an essential technique in the fields of electronic engineering and computer engineering.

#### **Technical Specification :**

##### **Technical Features:**

- PCM modulator and demodulator
- Regeneration of the synchronism and channel signals
- Sampled, but not quantified signal
- PTM Signal Generation
- 8 bit coding with compression, Mu or A selectable through bridge
- 2 channels for transmission and 2 channels for reception
- Possibility to use 1 or 2 digital channels
- PAM signal generation, demodulation, transmission for each single channel
- PAM modulator and demodulator
- Two channel time division
- Integrated antialiasing and band limiting analogue filters in reception, capacitive switching type
- Passing band from 300 Hz up to 3400 Hz
- Regeneration of the synchronism signal
- Conversion of the PWM signal to PPM and from the PPM signal to PWM

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Delta modulator and demodulator Single channel with passing band from continuous to 3400 Hz  
PCM signal generation and demodulation  
Passing band from continuous to 4000Hz  
PWM and PPM modulator and demodulator  
Single channel with passing band from continuous to 4000 Hz  
PCM Signal Time Division Multiplexing.



**Laboratory Instrument India**