

Product Name :
Digital Modulation Demodulation

Product Code :
ETLE0002



Description :

Digital Modulation Demodulation

Technical Specification :

Digital Modulation Demodulation

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

Technical Features of Digital Modulation Demodulation

1. PCM modulation and demodulation
2. 8 bit coding with compression, M or A selectable through bridge
3. 2 channels for transmission and 2 channels for reception
4. Possibility to use 1 or 2 digital channels
5. Integrated anti-aliasing and band limiting analogue filters in reception, capacitive switching type
6. Passing band from 300 Hz up to 3400 Hz
7. PAM signal generation, demodulation, transmission for each single channel
8. PAM modulation and demodulation
9. Two channel time division
10. Regeneration of the synchronism and channel signals
11. Sampled, but not quantified signal
12. PPM Signal Generation
13. Passing band from continuous to 4000Hz
14. PWM and PDM modulation and demodulation

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15. Single channel with passband from continuous to 400 Hz
 16. Regeneration of the synchronism signal
 17. Conversion of the PMS signal to PPM and from the PPM signal to PMS
 18. PCM signal generation and demodulation
 19. PCM Signal Time Division Multiplexing
 20. Delta modulator and demodulator Single channel with passband from continuous to 3400 Hz

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