

ACT-07T

Data Conditioning Trainer Kit



ACT-XX is a Digital Communication Trainer System to understand various digital Modulation and Demodulation Techniques. Various functional block diagrams are provided on-board for Teaching/Training. This Kit provides with various Test Points to visualize the signals on Oscilloscopes.

Features

- On-board 1MHz (0°), 1MHz(180°), 2MHz(0°) Carrier Generator
- On-board Clock and Coding data
- Data format of NRZ-L, NRZ-M, NRZ-S, URZ, AMI, BIO-L, BIO-M, BIO-S.
- ASK, PSK, FSK Modulator.
- On-board Unipolar to Bipolar and Bipolar to Unipolar conversion.
- In-Built Power Supply

Specifications

- **Carrier Generator**
 - › Provides Carrier Sine wave output of 1MHz (0°), 1MHz(180°), 2MHz(0°).
 - › Amplitude of 0 - 4Vp-p
- **Data Generator**
 - › On-board 8 bit Data Generator for simulation of data coding.
- **On-board features**
 - › Carrier Modulation using ASK, PSK, FSK
 - › Data formats of NRZ-L, NRZ-M, NRZ-S, URZ, Bi-phase-L, Bi-phase-M, Bi-phase-S, AMI

- › On board Carrier Modulation
- › On-board Data Simulator
- › On-board Uni-polar to Bipolar conversion
- › On-board Bipolar to Uni-polar conversion
- › Block Description Screen printed on glassy epoxy PCB

- **Modulation Techniques**

- › ASK, FSK, PSK Modulation.

- **Interconnections**

- › All interconnections are made using 2mm banana Patch cords.
- Test points are provided to analyze signals at various points.
- All ICS are mounted on IC Sockets.
- Bare board Tested Glass Epoxy SMOBC PCB is used.
- In-Built Power Supply of +5V/1.5A, ±12V/250mA with Power ON indication
- Attractive ABS Plastic enclosures
- Set of 2mm Patch cords for interconnections
- User's Manual with sample experimental programs

LIST OF EXPERIMENTS

- ☞ Study of Data Coding and Decoding Techniques for Non-return to Zero Format
- ☞ Study of Data Coding and Decoding Techniques for Phase Encoded Format
- ☞ Study of Data Coding and Decoding Techniques for Return to Zero Format and Multilevel binary format
- ☞ Study of Amplitude Shift Keying Modulation Techniques
- ☞ Study of Frequency Shift Keying Modulation Techniques.
- ☞ Study of Phase Shift Keying Modulation Techniques.

Note : Specifications can be altered without notice in our constant efforts for improvement.