



Order Code- 40616 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

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.

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 glassyepoxy 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 enclosure.
 - Set of 2mm Patch cords for interconnections.
 - User's Manual with sample experiments programs.
 - 315mm x 245mm x 105mm (L x W x H).
 - Weight 3 Kgs.

Note: Specifications are subject to change.

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