



Order Code-40619 is an Advance Digital Communication Trainer System that helps one understand various Digital Modulation and Demodulation Techniques. Various functional block diagrams are provided on-board as an aid for Teaching/Training. These Kits are provided with various Test Points to visualize the signals on Oscilloscopes.

FEATURES:

- Onboard synchronized 500 KHz Sine-wave generator.
- Differential Encoding type Data Format.
- On-board crystal controlled Pulse Generator.
- On board 8 bit Data Simulator.
- Block Description screen printed on PCB.
- In-Built Power Supply

LIST OF EXPERIMENTS:

- Principles of advance digital modulation techniques.
- Differential Encoding of Data.
- Binary Phase Shift Keying Modulation / Demodulation technique.
- Differential Phase Shift Keying Modulation / Demodulation technique.
- Differentially Encoded Phase Shift Keying Modulation / Demodulation technique.
- Effect of Switch Faults.

SPECIFICATIONS:

- **Carrier Sine Wave Generator**
 - Provides synchronized Sine waveform output of 500KHz(0 deg.), 500KHz(180 deg.)
- **Clock And Data Generator**
 - 8 bit variable NRZ-L pattern generated depending on the position of the 8-dit Data Switch provided.
 - Clock Frequency is of 250 KHz.
- **Data Format (Coding)**
 - Non Return to Zero-Level (NRZ-L)
 - Differential Encoded NRZ-L.
- **Carrier Modulation Techniques**
 - BPSK modulation
 - DPSK modulation
 - DEPSK modulation
- **On-board features**
 - Square Looping Technique used in Demodulation section
 - Switch Faults are provided on board to study different effects on circuit
 - Block Description Screen printed on glassy epoxy PCB
- **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.

Note: Specifications are subject to change.

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