



Order Code-40620 is an Advance Digital Communication Trainer System that helps one under stand 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.
- Dibit Pair, 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 and Demodulation techniques.
- Dibit pair data coding technique of NRZ-L data format.
- Differential Encoding of I & Q Bits.
- Observation of constellation diagram.
- Quadrature Phase Shift Keying Modulation and Demodulation technique.
- Differential Quadrature Phase Shift Keying Modulation and Demodulation technique.
- Effect of Switch Faults.

SPECIFICATIONS:

- Sine Wave Generator
 - Provides synchronized Sine waveform output of 500KHz (0 deg.), 500KHz(90 d e g.), 5 0 0 K H z (1 8 0 d e g.), 500KHz(270deg.)
 - Amplitude of 0 4Vp-p
 - Provision for Amplitude adjustments provided.
- Data Format (Coding)
 - Dibit Pair (I & Q), Differential Encoding of I & Q Bits.
- Carrier Modulation Techniques
 - DPSK modulation
 - DQPSK modulation
- Pulse Generator
 - Clock frequency of 250 KHZ BIT, BIT Clock, Word Clock.
 - Crystal Controlled Pulse Generator.
- On-board features
 - On board 8 bit variable NRZ-L pattern Data Simulator.
 - 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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