

ADCT-XX

ADVANCE DIGITAL COMMUNICATION TRAINER KIT

**ADCT-03**  
**QPSK/DQPSK DEMODULATION KIT**



ADCT-XX 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**

- ❖ Dibit Pair, Differential Encoding type Data Format for decoding
- ❖ Receiver Clock generated by PLL method
- ❖ Switch faults are provided to study its effects on circuits
- ❖ Block Description screen printed on PCB
- ❖ In-Built Power Supply

**Specifications**

- **Data Format (De-Coding)**
  - Dibit Pair (I & Q), Differential Encoding of I & Q Bits.
- **Carrier Demodulation Techniques**
  - DPSK Demodulation
  - DQPSK Demodulation

• **On-board features**

- Receiver Clock generated by PLL method
- 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,  $\pm 12V/250mA$  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**

- › List of experiments are same for both ADCT-02 and ADCT-03.
- › ADCT-02 and ADCT-03 are combined to perform the experiments

