

ADCT-06 QAM / DQAM 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

- ❖ Receiver Clock generated by PLL method
- ❖ Demodulation is done using PLL and Envelop Detector Method
- ❖ Switch faults are provided to study its effects on circuits
- ❖ Block Description screen printed on PCB
- ❖ In-Built Power Supply

Specifications:

- **Receiver Clock**
 - Receiver clock generated using PLL method
- **Data Format (Decoding)**
 - Non Return to Zero-Level (NRZ-L)
 - Tribit Decoded data (I, Q & C)
 - Differential Decoded I & Q Bits.

- **Carrier Demodulation Techniques**
 - Quadrature Amplitude Demodulation
 - Differentially Quadrature Amplitude Demodulation
- **On-board features**
 - QAM/DQAM Demodulation using PLL and Envelop detectors
 - 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 ABS Plastic enclosures .
 - Set of 2mm Patch cords for interconnections
 - User's Manual with sample experimental programs

• LIST OF EXPERIMENTS:

- To study Tribit decoding technique.
- To study Differential decoding of Data.
- Observation of constellation diagram.
- To study bandwidth efficiency of 8-QAM/DAQM.
- To study 8-QAM Demodulation technique.
- To study DQAM Demodulation technique.
- To study Effect of Switch faults.

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