

Product Name :
QAM DQAM Demodulation Trainer

Product Code :
NLAB-ELECTRONICSAB160010



Description :

QAM DQAM Demodulation Trainer

Technical Specification :

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:

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.

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

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, $\pm 12\text{V}/250\text{mA}$ with Power ON indication

Attractive enclosure

Set of 2mm Patch cords for interconnections.

User's Manual with sample experiments programs.

Naugralabequipments

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