💖 Scientech



Carrier Demodulation & Data Reformatting Receiver Scientech 2157 is complete digital communication platform which efficiently explains all communication processing steps involved in reception of Digital signals. Various digital demodulation techniques viz. ASK, FSK, PSK, DPSK, QPSK etc. can be implemented using Scientech 2157.

Features

- 7 different Data reconditioning formats NRZ (M), RZ, AMI, RB, Biphase (Manchester), Biphase (Mark).
- ASK, FSK, PSK, DPSK & QPSK Carrier demodulation.
- On board Biphase clock recovery circuit.
- On board Data squaring circuit and differential decoder.
- On board 4th order Butterworth filters
- On board 8 bit Data receiver
- Online Product Tutorials

Scope of Learning

Study of

- Data Formats
- Amplitude Shift Keying
- Frequency Shift Keying
- Phase Shift Keying
- Differential Phase Shift Keying
- Quadrature Phase Shift Keying
- Differential Quadrature Phase Shift Keying



Technical Specifications

Input	:	From Scientech 2156
Carrier Demodulation	:	ASK – Diode Detector
		FSK – PLL Detector
		PSK – Square Loop Detector
		QPSK – Fourth Power Loop Detector
Power Consumption	:	6 VA (approximately)
Test Points	:	39 nos.
Interconnections	:	2 mm Sockets
Power Supply	:	110-220V, 50/60 Hz
Product Tutorials	:	Online (Theory, procedure, reference results, etc)
Dimensions (mm)	:	W 326 x D 252 x H 52
Weight	:	2 Kg. (approximately)
Operating Conditions	:	0-40°C, 85% RH
Included Accessories		
Patch cord 16"	:	30 nos.
Patch cord 32"	:	4 nos.
Mains Cord	:	1 no.

Simtel 11 - Digital Communication Interactive Software (optional)



Topics

- Source: Signal Source, Pulse Generator, Data Generator, Delay
- Math Operations: Adder, Subtractor, Multiplier
- Natural and Flattop Sampling
- Line Encoding and Decoding
- Delta Modulator and Demodulator
- Adaptive Modulator and Demodulator
- Sigma Delta Modulation and Demodulation
- PCM Transmitter and Receiver
- DPCM Transmitter and Receiver
- DPCM Transmitter and Receiver
- A-Law and MU-Law
- Pulse Position Modulation and Demodulation
- Pulse width Modulation and Demodulation
- 2-Channel TDM-PCM Multiplexer

For more details refer Simtel 11 Catalog