

Data formatting & carrier modulation done in ST2106 can be demodulated and reformatted by using this trainer.

Technical Specifications

Input : From Data Formatting & Carrier Modulation Transmitter Trainer

Output : 2 Channel TDM Multiplexed data stream

Demodulation options : NRZ (M), RZ, AMI, RB, Biphase (Manchester), Biphase (Mark), differentially encoded dibit to NRZ (L)

Carrier Demodulation : ASK - Rectifier Diode
FSK - PLL Detector
PSK / DPSK- Square Loop Detector
QPSK/DQPSK- Fourth Power Loop
Detector

Biphase Clock Recovery : By PLL

Interconnections : 2 mm Sockets

Power Supply : 220 V \pm 10%, 50 Hz / 60 Hz on request

Power Consumption : 2 VA (approx.)

- ▣ 7 different data reconditioning formats NRZ (M), RZ, AMI, RB Biphase
- ▣ (Manchester), Biphase (Mark), differentially encoded dibit to NRZ data
- ▣ ASK, FSK, PSK, DPSK, QPSK & DQPSK carrier demodulation
- ▣ Output gives 2 Channels TDM multiplexed data output
- ▣ On - Board Biphase Clock recovery circuit
- ▣ On - Board data squaring circuit and differential decoder
- ▣ On - Board Butterworth filters - 4th Order (2 nos.)

Experiments that can be performed

- ▣ Study of Conversion of different data formats to NRZ data format.
- ▣ Various Carrier Demodulation Techniques ASK, FSK, BPSK, DPSK, QPSK & DQPSK

