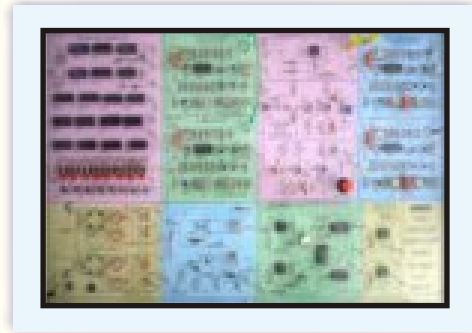# SIGMA

OQPSK MODULATION/DEMODULATION TRAINER

MODEL - OQPSK100

This trainer has been designed with a view to provide practical/experimental knowledge of OQPSK Modulation / Demodulation.

SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. On Board Modulating Digital Data signal generator to generate any binary input word with Bit clock & Word clock.

Word Length	:	8 Bits.
Word Clock Frequency	:	10 KHz
Data Format	:	NRZ, Even Bits I and Odd bits Q signals.

3. On Board synchronized RF Carrier : 1.28 MHz - Sine & Cosine.
4. Modulator Type : Using two Balanced Modulators with two PSK and adder
5. Demodulator Type : Balanced Modulator detectors.
6. Decision Threshold : Comparator
7. Standard Accessories : 1. A Training Manual.
   2. Connecting Patch cords.

EXPERIMENTS

1. To study theory of OQPSK Modulation & Demodulation.
2. To generate OQPSK signal.
3. To demodulate OQPSK signal using balanced modulators.
4. To observe OQPSK modulated output for different input binary inputs.
5. To observe OQPSK Phasor diagrams on CRO for different binary inputs.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.