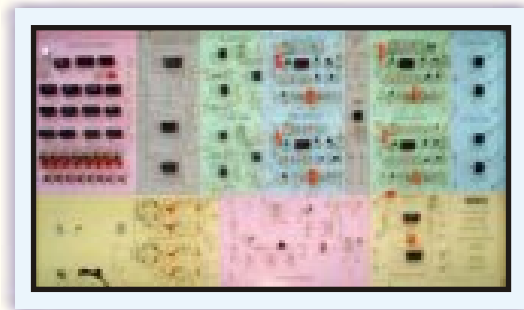




16-QAM MODULATION/DEMODULATION TRAINER

MODEL - QAM100-16

This trainer has been designed with a view to provide practical/experimental knowledge of 16-QAM Modulation/Demodulation technique as practically implemented in Digital Communication systems on a SINGLE PCB.



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 Section : Serial to Parallel Converter
Two to Four level PAM converter
Using two Balanced Modulators with two PSK and adder
5. Demodulator Type : Balanced Modulator detectors.
Four to Two level converter
Parallel to Serial Converter
6. Decision Threshold : Comparator
7. All parts are soldered single PCB with complete circuit diagram screen-printed in multicolor.
8. Standard Accessories : 1. A Training Manual
2. Connecting Patch cords.

EXPERIMENTS

1. To study theory of 16-QAM Modulation & Demodulation.
2. To generate QAM signal and demodulate it
3. To observe QAM modulated output by for different input binary codes.

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

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