



Description

The Digital Modulation Communication Trainer (PCM/TDM) is a compact, laboratory-grade training system designed for hands-on study of digital communication techniques. The trainer enables practical understanding of pulse-based modulation methods and multiplexing concepts through integrated signal generation, filtering, and measurement facilities.

Functional Capabilities

- **Modulation & Demodulation:**
 - Pulse Code Modulation (PCM) techniques
 - Time Division Multiplexing (TDM)
- **Internal Signal Generator:**
 - XR2206 / 8038 IC-based signal generators
- **Signal Types:**
 - Sine wave
 - Square wave
- **Signal Frequency Range:**
 - 200 Hz to 2 kHz
- **Sampling / Clock / Line Frequency:**
 - Up to 200 kHz (maximum)
- **Low-Pass Filter:**
 - Cut-off frequency: 5 kHz

Mechanical Specifications

- **Dimensions (W × D × H):** 265 × 185 × 95 mm Approx
- **Weight:** Approximately 1.5 kg Approx

Electrical Specifications

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- **Power Supply:** 110 V – 260 V AC, 50/60 Hz

Environmental Conditions

- **Operating Temperature:** 0 °C to 40 °C
- **Relative Humidity:** Up to 85% RH



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