



The Digital Modulation Communication Trainer PCM/TDM is a versatile and compact educational tool designed to provide hands-on learning and demonstration of key digital modulation techniques, including Pulse Code Modulation (PCM) and Time Division Multiplexing (TDM). The trainer is ideal for engineering students, researchers, and professionals aiming to gain in-depth knowledge of digital communication principles. Equipped with built-in XR2206/8038 IC signal generators, the unit can produce both sine and square waveforms with frequencies ranging from 200 Hz to 2 kHz. The system also features sampling, clock, and line frequency generation up to a maximum of 200 kHz, making it highly suitable for practical experiments in digital transmission systems. To ensure signal fidelity, the trainer incorporates a low-pass filter with a cut-off frequency of 5 kHz. Its compact and durable design (265 mm W × 185 mm D × 95 mm H) makes it easy to set up in laboratories or classrooms. The unit operates on a wide power supply range of 110V–260V AC at 50/60Hz and weighs approximately 1.5 kg, ensuring portability without compromising functionality. Designed to withstand operating conditions of 0-40°C and up to 85% relative humidity, it is robust enough for diverse environments.

Product Features:

- Demonstrates Pulse Code Modulation (PCM) and Time Division Multiplexing (TDM)
- Built-in XR2206/8038 signal generators for sine and square waves
- Frequency range: 200 Hz to 2 kHz (signal), up to 200 kHz (sampling/clock/line)
- Low-pass filter with 5 kHz cut-off frequency
- Compact dimensions: 265 × 185 × 95 mm
- Operates on 110-260V AC, 50/60Hz
- Lightweight: approx. 1.5 kg
- Suitable for 1-day training programs

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



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