



The ST2207, Four channel analog TDM trainer demonstrate Time division multiplexing technique. The trainer provides all necessary inputs and connections for students to study amplitude modulation, demodulation, multiplexing and demultiplexing techniques. The trainer is student friendly & completely self contained, having all the basic required circuits and controls on board. Student troubleshooting work is included through switched faults in the trainer.

- ▣ Self-contained trainer with built in power supply
- ▣ On-board sine generator(synchronized)
- ▣ On board DSB/DSBSC modulators
- ▣ Crystal controlled carrier frequency generator
- ▣ Four Analog input time multiplexed channels
- ▣ Four Envelope detectors
- ▣ On board four 4th order low pass filters
- ▣ Input-output & test points provided on board
- ▣ 8 Switched faults for fault simulation

Technical Specifications

Crystal frequency : 1 MHz
On-board generators : Four Adjustable amplitude sine wave generators of 250 Hz, 500 Hz, 1 KHz and 2 KHz
Input channels : Four
Multiplexing : Time division multiplexing
Modulation : DSB / DSBSC modulation
On-board control signal frequency : 8 KHz, 16 KHz
Test points : 29
Interconnections : 2 mm sockets
Power : 220 V ±10 %, 50 Hz / 60 Hz on request
Power Consumption : 4.8 VA (approx.)
Dimensions (mm) : W 340 × D 240 × H 105
Weight : 1.8 Kg (approx.)
Accessories : Manual, Set of patch cord, line cord

Experiments that can be performed

- Study of DSB & DSBSC AM generation
- Study of Time division multiplexing & demultiplexing of analog signals
- Study of the effect of induced faults
- Study of carrier frequency generation
- Study of DSB & DSBSC AM reception & detection by Envelope detectors.

