

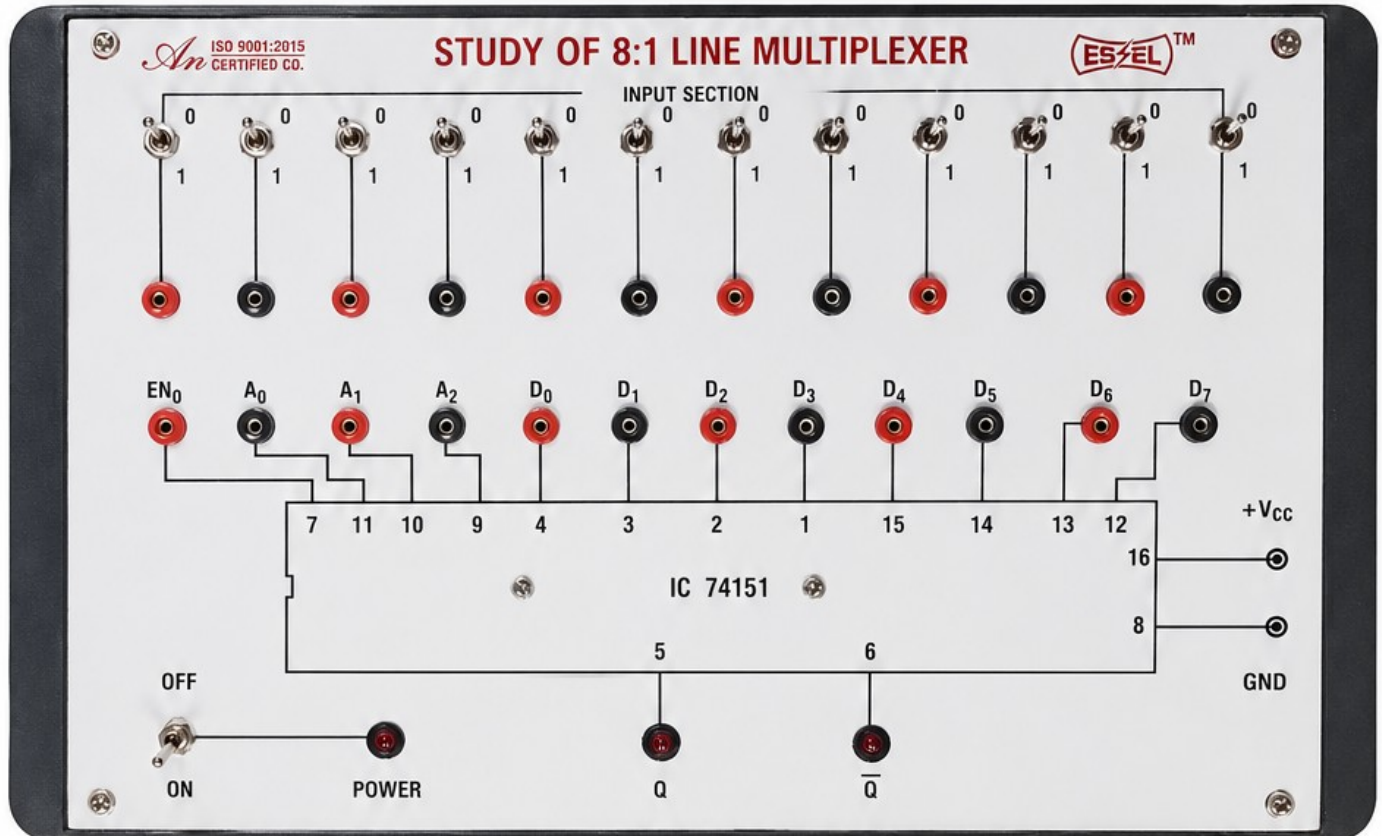
8:1 LINE MULTIPLEXER USING IC 74151

Precision Design. Trusted Performance.

Advanced Digital Training Module for Education and Industry



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OVERVIEW

The 8:1 Line Multiplexer Using IC 74151 is a practical training module designed to demonstrate the function and operation of an 8:1 multiplexer. It helps students and professionals understand digital data selection, logic control, and IC-based circuit design through hands-on experimentation.



High
Accuracy



Robust
Design



Easy
Operation



Reliable
Performance

SPECIFICATIONS

- **Product Name** : 8:1 Line Multiplexer Using IC 74151
- **IC Used** : 74151
- **Function** : 8:1 Data Selection
- **Inputs (Data)** : 8 Inputs ($D_0 - D_7$)
- **Select Lines** : 3 (A_0, A_1, A_2)
- **Enable Input** : 1 (EN_0)
- **Outputs** : 1 Output (Q) and 1 Complement Output ($\bar{Q}$)
- **Logic Family** : TTL Compatible
- **Power Supply** : +5V DC $\pm$ 5%
- **Indicators** : Power, Output (Q), Output ($\bar{Q}$)
- **Mounting** : Panel Mounted in Metal Enclosure
- **Dimension (mm)** : Approx. 310 (W) x 190 (H) x 60 (D)
- **Weight** : Approx. 1.5 kg
- **Applications** : Digital Electronics Lab, Engineering Education, R&D, Training Institutes

FEATURES

- Designed using IC 74151 (8:1 Multiplexer)
- 8 Data Inputs with Individual Toggle Switches
- 3 Select Lines for Channel Selection
- Enable Input for Circuit Control
- Direct Output (Q) and Complement Output ($\bar{Q}$)
- Visual Indication for Output and Power
- +5V DC Operation
- Sturdy Construction for Long-Term Use
- Ideal for Academic and Industrial Training

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