The design and construction of electronic circuits to solve practical problems is an essential technique in the fields of electronic engineering and computer engineering.

The board has been designed to guide the student to the comprehension and testing of the physical principles of the propagation of electrical signals on transmission lines and as an introduction to the use of the lines as a main element in communications systems.

### THEORETICAL TOPICS
- Familiarization with the transmission line theory
- Practical types of transmission lines.
- The four terminal model of the transmission line (Equivalent circuit model)
- Measurement of the characteristic parameters of the line
- Attenuation measurement
- Line frequency characteristics
- Line input impedance
- Stationary waves
- Signal phase shift along the line
- Fault finding along the line
- Line in pulsed state

### CIRCUIT BLOCKS
- Function generator
- Input and output stages
- RLC simulated coaxial cable transmission line of 80m (4x20m)
- R L C loads

Additional modules for coaxial cable measurements:
- Bridge circuits for RLC measurement (DL 3155E64A1).
- Coaxial cable module (DL 3155E64A2).

Complete with theoretical and practical manual.

Dimensions of the board: 297x260mm