

## ADSL Trainer (EDC-ADSL-102)

### EXPERIMENTAL DATA:

- Asymmetric Digital Subscriber Line (ADSL).
- ADSL Basics.
- Signal Generation Analysis.
- ADSL Signal Spectral Analysis.
- Simulation Based analysis:
  - Framing, Synchronization, Error Detection, Forward Error Correction, Data Interleaving, Convolutional Coding in ATU Transmitters, Trellis-Coded Modulation in ATU Transmitters, Viterbi Decoding in ATU Receivers.
- Spread Spectrum analysis.
- Error test.
  - CRC.
  - FEC.
  - HEC.
  - NCD.
  - LOS.
- DMM Test:
  - DC Voltage.
  - AC Voltage.
  - Loop resistance.
  - Capacitance.
  - Insulation resistance.
- ADSL Modem Emulator.



### DESCRIPTION:

Asymmetric digital subscriber line is a type of digital subscriber line technology, a data communications technology that enables faster data transmission over copper telephone lines than a conventional voiceband modem can provide. ADSL differs from the less common symmetric digital subscriber line.

The apparatus contains a self-based mode to study the ADSL signals. It is a bench top apparatus contains all the necessary equipment to test the signals of ADSL.

## SPECIFICATIONS:

- Fast Copper tests with DMM (ACV, DCV, Loop and Insulation Resistance, Capacitance, Distance).
- Supports Modem emulation and simulating login to Internet.
- Supports ISP login (username / password) and IP Ping test (WAN PING Test, LAN PING Test).
- Supports all multi-protocol, PPPoE / PPPoA (LLC or VC-MUX).
- Connects to CO via alligator clip or RJ11.
- Rechargeable Li-ion Battery.
- Beep and LEDs alarm indications (Lower Power, PPP, LAN, xDSL).
- Data memory function.
- LCD display, Menu operation.
- Compliant with all known DSLAMs.
- Software management.
- Simulation Software (optional).
- Power 220V 50 Hz AC.

## DIMENSIONS AND WEIGHT:

- L x W x H (mm): 500 X 400 X 300 approx.
- Weight: 15 kg approx.

## TECHNICAL DATA:

- DSL Physical layer test.
- Modem Emulation (Replace the user Modem completely).
- PPPoE Dialing (RFC1683, RFC2684, RFC2516).
- PPPoA Dialing (RFC2364).
- Telephone Function.
- DMM Test.
- Ping Function (WAN & LAN).
- Data upload to computer and software management.
- Setup system parameter: backlight time, shut off automatically time without operation, press tone.
- Revise PPPoE / PPPoA dial attribute, user name and password; restore factory value and so on.

## SCOPE OF DELIVERY:

- 1 x EDC-ADSL-102.
- RJ45 Connector Cable.
- RJ11 Connector Cable.
- USB Micro Cable.
- Power Cable.
- Software management CD.
- 1 x Instructional Manual.

