



## FEATURES

- 2048 kbit/s framed / unframed transmitter and receiver with through mode capability
- 2048 kbit/s slip measurement
- Interface parameters to ITU-T Rec. G.703
- Graphical displaying of signal pulse shape
- Jitter measurement
- PCM30, PCM30CRC, PCM31, PCM31CRC frame analysis
- nx64 kbit/s testing
- Line signal frequency measurement
- BER test to ITU-T Rec. G.821, G.826, M.2110, M2120
- CAS status analysis
- Auto-configuration function
- Storage of set-ups and results
- Voice channels monitoring through built in speaker
- External clock input
- Selectable English or Russian languages
- PC software for result storage
- 320 x 240 LCD color display

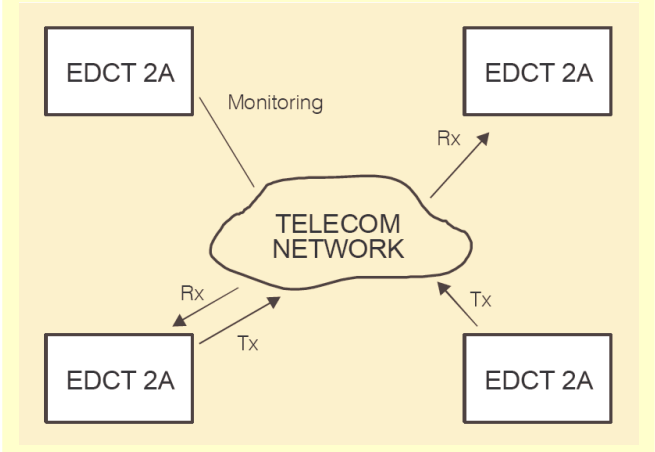
## APPLICATIONS

The **Digital Line Analyser EDCT 2A** is a hand-held, battery operated, multi-function measuring instrument for in or out-of-service bit error and signal measurements. EDCT 2A can work in both unframed and framed modes for end-to-end and loopback testing of digital channels. It offers features such as: timeslot monitoring; timeslot access; set-ups and result storages.

Results can be stored in it's non-volatile memory or logged on PC via USB.

Main field of using:

- Installation of digital telecom circuits and services
- Long-term network monitoring
- Maintenance and troubleshooting



## SPECIFICATIONS

**Transmitter (Tx)**

Bit rate .....	2048 kbit/s
Interface parameters .....	ITU-T Rec. G.703
Tested channels .....	n x 64 kbit/s
Test patterns.....	normal or inverted PRBS 6, PRBS 9, PRBS 11, PRBS 15, user defined pattern (8 bit word)
Framing .....	PCM30, PCM30CRC, PCM31, PCM31CRC with signaling and overhead bits setup, unframed
Line code.....	HDB3 or AMI
Error addition	bit, frame, alarm generation
Output	
Unbalanced .....	75Ω, BNC
Balanced.....	120 Ω, 3 pol CF socket

**Receiver (Rx)**

Bit rate .....	2048 kbit/s
Interface parameters .....	ITU-T Rec. G.703
Tested channels .....	nx64 kbit/s
Test patterns.....	normal or inverted PRBS 6, PRBS 9, PRBS 11, PRBS 15, user defined pattern (8 bit word)
Framing .....	PCM30, PCM30CRC, PCM31, PCM31CRC, unframed
Line code.....	HDB3 or AMI
Measurements .....	bit errors, code errors, frame errors, CRC errors, REBEs (E-bit), timeslot monitor, CAS status monitor, VF level, frequency, line signal frequency
Alarm detection .....	indication of: signal loss, frame and multi-frame loss, pattern loss, AIS
Error analysis.....	G.821, G.826, M2100
Input	
Unbalanced .....	75 Ω or >2 kΩ, BNC
Balanced.....	120 Ω or >2 kΩ, 3 pol CF socket

**Jitter measurement**

Bit rate .....	2048 kbit/s ±50ppm
Jitter measurement.....	ITU-T Rec.O.171
Line code.....	HDB3 or AMI

**Pulse shape measurement**

Bit rate .....	2048 kbit/s ±50ppm
Pulse shape test.....	ITU-T Rec.G.703
Line code.....	HDB3 or AMI

**CLK**

Input .....	ITU-T Rec.G.703, RJ 11
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**General specification**

## Power supply

Internal rechargeable battery pack

Operation time .....approx. 8 hours

External charger ..... mains adapter

Charging time ..... less than 3 hours

Display.....320x240 color graphic LCD

Serial interface..... USB 1.1

Ambient temperature range

Operating .....0 to +50°C

Storage and transport ..... -20 to +70°C

Dimensions..... 200x100x44 mm

Weight (including battery pack).....approx. 0.8 kg

**Ordering information****DIGITAL LINE ANALYSER EDCT 2A ....412-000-000**

Including:

Operating manual

Mains adapter

2 balanced measuring cables

2 coaxial measuring cables

RJ9 / RJ11 cable

Carrying case

Options:

Hardware

Interface panel for jitter and pulse shape

measurements.....413-000-000

Software

Jitter measurement .....SW 413-510-000

Pulse shape measurement.....SW 413-520-000

PC software for data transfer ....SW 413-530-000