



Compact Multichannel Digital Recorder

TDR 40

When your radio and phone communications gain vital importance for your business or in emergency and security matters, then it becomes crucial to report them in a reliable and accurate way.

Events reconstruction based on conversations is hardly carried on with written notes or with statements that rarely agree: that's why communications recording, with date/hour/minute/second, becomes essential for clarifications, controls, analysis and transcriptions.



▶ **COMPACT**
▶ **RELIABLE**
▶ **SECURE**

NEW!

TEMA TELECOMUNICAZIONI
Leading Technologies
in Communications' Monitoring

TDR40 is a digital integrated system for recording and indexing radio-telephonic calls, especially designed for application that require 1 to 4 lines (either analog or ISDN or in mixed configuration) where small dimensions, low power consumptions, low costs, user-friendly interface, immediate play of the recorded communications and reliability are strategic requirements.

TDR40 allows to record communications over all channels connected, even with contemporary listening, for a minimum of over 1.380 hours of not compressed recordings on local Hard Disk or 18 hours on local Compact Flash support before oldest data are deleted.

The recorder is provided with a LAN support which allows remote control and access protected by multilevel password. Permanent archiving is managed via software, as well as advanced functions in recordings management; the communications recorded can be saved on PC dedicated server (via LAN) and after on CD-ROM, DVD-ROM or DVD-RAM supports for historical archive. Hardware architecture allows immediate check of all system tasks.

The exclusive TEMA operative software makes the search/listen functions simple and intuitive, allowing the user to set some important parameters as date / hour / period / length / called number /etc., and always protected by password.

TDR40, based on DSP (Digital Signal Processing) technology, is a prompt answer to the most sophisticated operative requirements today and tomorrow.

- ◆ **1/2/4/8 channels**
- ◆ **Analog and telephone lines / ISDN / radio channels**
- ◆ **Playing and Recording simultaneous**
- ◆ **Live Monitor of active current communications**
- ◆ **Over 1.380 hours of recordings on local Hard Disk**
- ◆ **Support for connection over LAN network**
- ◆ **In-band DTMF protocol**
- ◆ **Time Stamp on archived records**
- ◆ **Search of communications with parameters settings**
- ◆ **Hard Disk / Compact Flash memory support**
- ◆ **High sound / voice quality**
- ◆ **Remote control software via LAN and RS-485/RS-232**
- ◆ **DTMF password protection for access in Conference Mode**
- ◆ **Backlight display and front access keypad**
- ◆ **Commercial Offices**
- ◆ **Audioconference Meetings**
- ◆ **Banks – Finance transactions**
- ◆ **Insurances - Utilities**
- ◆ **Airports**
- ◆ **Public Security**
- ◆ **Fire Brigades**
- ◆ **Police - Law Agencies**
- ◆ **Private Surveillance**
- ◆ **Emergency Services**
- ◆ **Radio / Television**
- ◆ **Call Centers – Telemarketing**
- ◆ **Order entry**
- ◆ **Naval Communications**
- ◆ **Public opinion polls**



HARDWARE PLATFORM

DSP (Digital Signal Processing) 225Mhz BGA, Flash Eprom, RAM, mass storage available on standard Compact Flash and Hard Disk 2,5", RS232 port, Ethernet LAN, RS485 for mini remote terminal (optional).

Enter functions by keypad and backlight display on front panel, Embedded Operative System.

ARCHIVING TECHNOLOGY

Compact Flash/Hard Disk onboard, other supports via LAN.

INPUT LINES INTERFACE

Analog lines – high input impedance > 20KΩ - low input impedance 600Ω, sensitivity 20mV / 2Vrms.

RECORDING AND PLAYBACK

Transfer function: 300...3400Hz
Sampling: 8Khz 8 bit PCM 64kb/s
Compression: 1:1 A-Law 8.0 kB/s

DATE/HOUR TIME STAMP

Date/hour automatically linked to recorded communications, internal clock with Lithium battery to keep time information stored even during power supply fall.

RECORDING FUNCTIONS

Start from VOX/RING (on analog lines) and Monitor ISDN/TE (on digital lines). Recording and Playback simultaneous. Recording driven even by Timer or external contact.

PLAYBACK FUNCTIONS

Instantaneous playback on all channels, Off-line or On-line without stopping recording, from Hard disk internal buffer (last 1.380 hours) and/or Compact Flash (capacity depending on user requirements). Play, Stop, Pause, Fast Forward, Loop functions. All communications can be exported in .wav format.

AUDIO OUTPUT

Output line towards external recorder for communication duplexing, output jack for headphones, internal loudspeaker with front panel volume settings.

AUDIO INPUT

Additional audio input for external microphone, additional audio input for external Line signal.

SECURITY AND ALARMS

Alarms signals in case of system errors with detailed event log for analysis. Multilevel password to enter the system with different privileges.

DATA ACCESS

Instant recall of the communication just recorded (even if not yet over), playback of the last one (Last Call Repeat), playback of any media stored in archive. Remote management of archived communications and multiuser access via optional software of archiving and Workstation.



IMPROVEMENTS

TDR40 is compatible with CE requirements on security and EMC according to the current EU laws.

POWER SUPPLY - DIMENSIONS / WEIGHT

230VAC, 12Vdc-7W with external power supply
L234 x H42 x P166,5mm WEIGHT 1500g,

TEMPERATURE - RELATIVE HUMIDITY

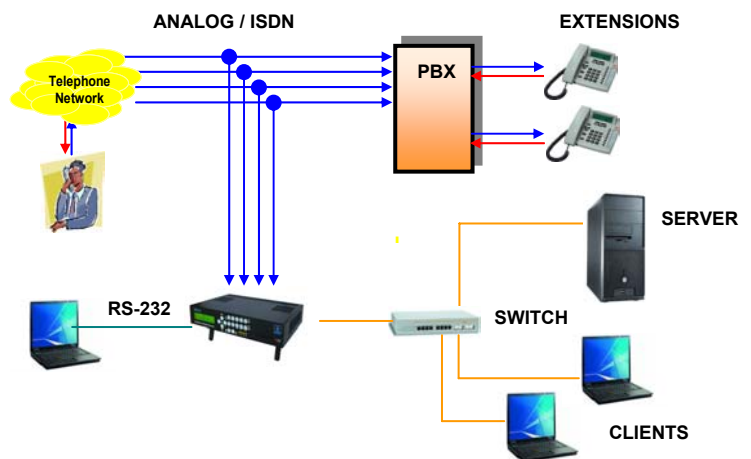
Temperature: installation in office, 5° ... 40°, stock -20°....+60°.
Humidity 10%-80% not condensing

COMPACT FLASH VERSIONS

- TDR40/1 1 Analog tel. line, 2 IN Mic"/Line"
- TDR40/2 2 Analog tel. lines, 2 IN Mic"/Line"
- TDR40/4 4 Analog tel. lines, 2 IN Mic"/Line"
- TDR40/1B 1 ISDN BRI, 2 IN Mic"/Line"
- TDR40/2B 2 ISDN BRI, 2 IN Mic"/Line"
- TDR40/4B 4 ISDN BRI, 2 IN Mic"/Line"
- TDR40/22B 2 ISDN BRI, 2 Analog lines, 2 IN Mic"/Line"

HARD DISK VERSIONS (with Compact Flash included)

- TDR40H/1 1 Analog tel. line, 2 IN Mic"/Line"
- TDR40H/2 2 Analog tel. lines, 2 IN Mic"/Line"
- TDR40H/4 4 Analog tel. lines, 2 IN Mic"/Line"
- TDR40H/1B 1 ISDN BRI, 2 IN Mic"/Line"
- TDR40H/2B 2 ISDN BRI, 2 IN Mic"/Line"
- TDR40H/4B 4 ISDN BRI, 2 IN Mic"/Line"
- TDR40H/22B 2 ISDN BRI, 2 Analog lines, 2 IN Mic"/Line"



The manufacturer reserves the right to change product characteristic without notice

