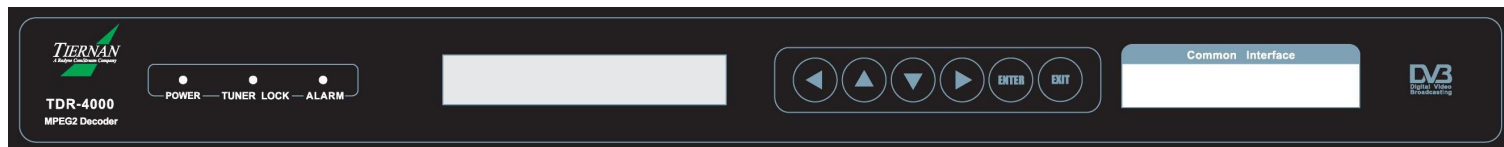


# TDR4000 DVB-S & S2, IP & ASI

## Professional Digital Satellite IRD With CI

**TIERNAN**  
International Datacasting Corporation



### HIGHLIGHTS

- ▶ DVB and MPEG-2 Compliant
- ▶ Dual Common Interface Slot for PCMCIA
- ▶ Conax, CryptoWorks, Irdeto, NDS, Mediaguard, SECA, Viaccess and Others Supported
- ▶ Remote Control Switching for PCMCIA
- ▶ Transparent Decryption ASI or Non-Decryption Output
- ▶ DVB-S & DVB-S2 receive
- ▶ PID grooming supported
- ▶ Analog CVBS and digital SDI video output
- ▶ Full Front Panel Configuration and Monitoring along with a complete remote command protocol
- ▶ Analog and embedded digital audio supported
- ▶ OSD Teletext (DVB ETS 300 706) and Caption Function Supported
- ▶ ASI input and output interface
- ▶ IP input and output interface
- ▶ Automatic Conversion Between NTSC & PAL
- ▶ Software Upgradeable via RS-232
- ▶ 2000 Channel Storage, with Last Channel Memory
- ▶ BISS Conditional Access
- ▶ Simple Multiplexing included

### DESCRIPTION

The TDR4000 is Tiernan's cost effective extremely versatile professional IRD solution for cable, business or private television networks. The TDR4000 is DVB and MPEG-2 compliant and equipped with a DVB-S and DVB-S2 demodulator with ASI inputs and outputs as well as IP input and outputs. The 1RU, rack mountable, TDR4000 can be configured with up to two PCMCIA Common Interface modules allowing the unit to receive various encrypted programs. These programs include, but are not limited to, Conax, CryptoWorks, Irdeto, NDS, Mediaguard, SECA and Viaccess.

### Triple INPUTS :

The TDR4000 provides three distinct input interfaces, DVB-S2, IP and ASI. The output Out may be via ASI, IP or decoded audio and video.

### Video and Audio Outputs :

The TDR4000 provides for both Digital video with embedded audio and Analog CVBS video on BNC with analog audio on XLRs. Analog RGB/ YPrPb, CVBS and analog audio are also provided on RCA connectors to facilitate simple wiring for monitoring applications.

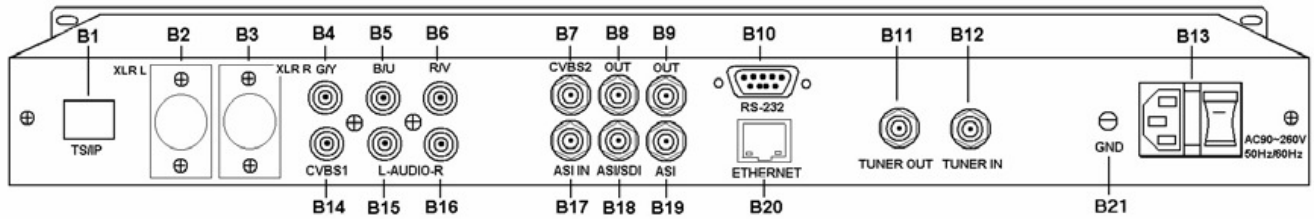
### MAXIMUM FLEXIBILITY:

The ASI input and two ASI outputs enable the user to pass along an encrypted program to another IRD for decrypting. Multiple encrypted programs can be received and decoded by a daisy chain of TDR4000s.

The TDR4000 can be used as a transport stream converter for IP to ASI or ASI to IP. It can also be used as a stream groomer or even a simple multiplexer.

# TDR4000

Professional Digital Satellite IRD  
With DVB-S2, CI, IP and ASI



## TECHNICAL SPECIFICATIONS

- Input:**
- L-Band, 950 to 2150 MHz, F-Type (Female) Connector
  - DVB-S QPSK (1.5 – 45msps) or DVB-S2 (5.5 – 30 Msps) QPSK & 8PSK
  - ASI input & output on BNC
  - IP Input or Output 10/100 base-T
- Video Processing:**
- MPEG-2 Main Profile @ Main Level (ISO/IEC 13818-2)
  - Compressed Video Rates from 1 Mbps to 15 Mbps
- VBI:**
- ATSC Closed Captioning (Line 21), DVB SVB/Teletext
  - Teletext
  - DVB and EBU Subtitling
- Video Output:**
- Composite Analog NTSC or PAL - BNC and RCA
  - Digital SDI with embedded audio
  - RGB/YPrPb on RCA
- Audio Processing:**
- MPEG Layer I or Layer II, Musicam
- Audio Output:**
- One Analog Stereo Pair - XLR and RCA
- Conditional Access:**
- BISS 1 & DVB-CI
- Remote Control:**
- RS-232 on a DB-9 (Male) Connector for Software Upgrades Only
  - Full control over IP via provided control program
- Control Panel:**
- Menu-Driven full front panel control with Keypad for Complete Configuration Identification, Status, and Monitoring
- DVB-ASI Input:**
- 75 Ohms - 1 BNC (Female)
  - 270 Mbps
- DVB ASI Output:**
- 75 Ohms - 2 BNC (Female)
  - 270 Mbps
- Physical**
- Dimensions:**
- 1RU, 45mm High x 440mm Deep x 483mm Wide
- Weight:**
- 5.2 kg
- Power Supply:**
- Auto-Ranging 90 to 240 VAC
  - 50/60 Hz Universal Power Supply
  - 35 Watts Maximum Consumption
- Operating**
- Conditions:**
- Ambient Temperature: 0° to 50°C
  - Operating Humidity: 95% Non-Condensing