

# TDR3000

## Professional Digital Satellite IRD With CI and ASI

**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*
- ▶ *Dual QPSK & ASI Input Options*
- ▶ *Multiple Channel Decryption Via a TDR3000 Daisy-Chain Configuration*
- ▶ *Front Panel Configuration and Monitoring*
- ▶ *256 Color Screen Display Supports Multiple Languages*
- ▶ *OSD Teletext (DVB ETS 300 706) and Caption Function Supported*
- ▶ *Video PID & Audio PID Setup EPG*
- ▶ *Function Supports PIGDisplay*
- ▶ *Automatic Conversion Between NTSC & PAL*
- ▶ *Software Upgradeable via RS-232*
- ▶ *2000 Channel Storage, with Last Channel Memory*
- ▶ *BISS Conditional Access*

### DESCRIPTION

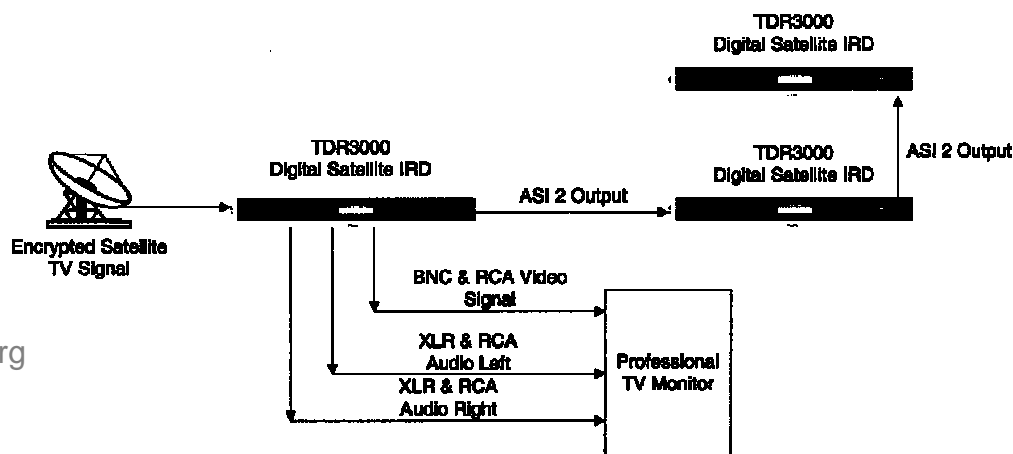
The TDR3000 is Tiernan's cost effective professional IRD solution for cable, business or private television networks. The TDR3000 is DVB and MPEG-2 compliant and equipped with a QPSK demodulator and an ASI input and output. The 1RU, rack mountable, TDR3000 can be configured with up to two PCMCIA Common Interface modules allowing the unit to receive various encrypted DVB-S programs. These DVB-S programs include, but are not limited to, Conax, CryptoWorks, Irdeto, NDS, Mediaguard, SECA and Viaccess.

### DUAL INPUTS:

The TDR3000 provides two signal input options, one is QPSK which receives the DVB-S signal from the satellite, and the other is ASI. The ASI source could be provided by another CATV head-end device.

### 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 TDR3000s.



<http://www.digisat.org>  
[sales@digisat.org](mailto:sales@digisat.org)

INTERNATIONAL  
DATACASTING

[www.tiernan.com](http://www.tiernan.com)  
[www.datacast.com](http://www.datacast.com)

**TIERNAN**

# TDR3000

Professional Digital Satellite IRD  
With CI and ASI



## TECHNICAL SPECIFICATIONS

### STANDARD FEATURES:

- Input:**
  - L-Band, 950 to 2150 MHz, F-Type (Female) Connector
  - Dual QPSK, Signal Rate from 2 to 45 Msps and ASI
  - Input Levels -25 dBm to -65 dBm
  - DVB-Compliant FEC Reed-Solomon Decoding 1/2, 2/3, 3/4, 5/6, 6/7, 7/8
- 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
- Video Output:**
  - Composite Analog NTSC or PAL - BNC and RCA
- Audio Processing:**
  - MPEG Layer I or Layer II, Musicam
- Audio Output:**
  - One Analog Stereo Pair - XLR and RCA
- Conditional Access:**
  - BISS & DVB-CI
- Remote Control:**
  - RS-232 on a DB-9 (Male) Connector for Software Upgrades Only
- Local Operator Control Panel:**
  - Menu-Driven On Screen Display with Keypad for Configuration, TV Service 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:**
  - Weighs Less Than 2.6 kg
- Power Supply:**
  - Auto-Ranging 90 to 240 VAC
  - 50/60 Hz Universal Power Supply
  - 25 Watts Maximum Consumption
- Operating Conditions:**
  - Ambient Temperature: 0° to 40°C
  - Operating Humidity: 95% Non-Condensing

**U.S.A./Canada/Latin America:** 7330 Trade Street, San Diego, California 92121 USA Tel: +(1) 858.805.7000 Fax: +(1) 858.805.7001  
**Europe/Middle East/Africa:** 13 The Enterprise Centre Coxbridge Business Park Alton Road, Farnham Surrey GU10 5EH, UK Tel: +(44) 1252.731.300 Fax: +(44) 1252.716.915  
**Asia-Pacific:** 150 Cecil Street #08-02, Singapore 069543 Tel: +(65) 6325.1956 Fax: +(65) 6325.1950  
**India:** Satcom Ground Systems Pvt. Ltd., No. 781 Sougandha, 16<sup>th</sup> Main Rd., BTM 2<sup>nd</sup> Stage, Bangalore, India 560 076 Tel: +(91)80.2668.2523 Fax: +(91)80.2668.2524

Prices, specifications, and product availability subject to change without notice. All trademarks acknowledged.

© Copyright 2009 International Datacasting Corporation All rights reserved.

TDR3000-DATA, Rev. D