



TDR777

Professional MPEG-2 DVB IRD



HIGHLIGHTS

- ▶ Economical integrated receiver/decoder (IRD) for professional television network applications
- ▶ MPEG-2 DVB-compliant
- ▶ Video decoding of MPEG 4:2:0 MP@ML
- ▶ Supports both SCPC and MCPC applications
- ▶ Low-profile 1U rack-mount chassis
- ▶ Supports PGCA conditional access

DESCRIPTION

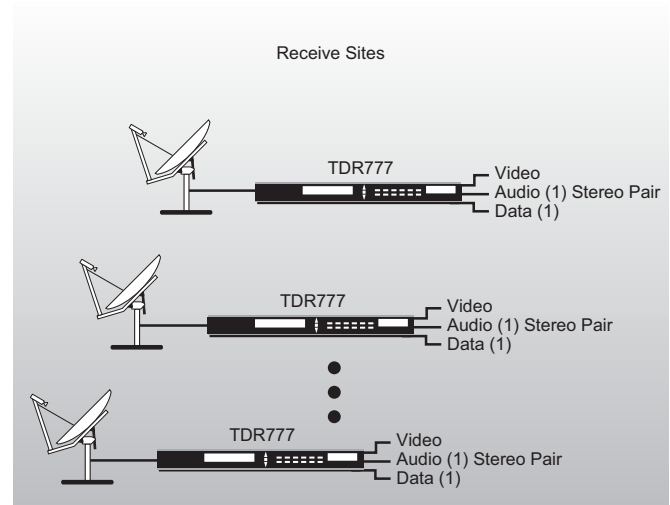
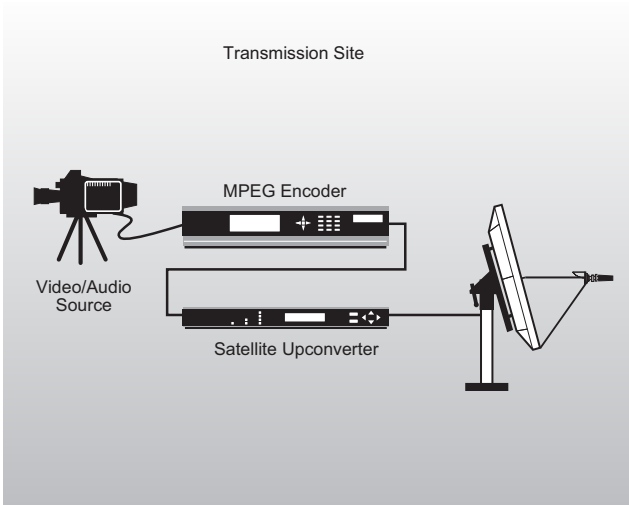
Performance

Applications for the TDR777 IRD include business television networks, distance learning, teleconferencing, broadcast monitoring, DSNG, and cable headend reception.

The TDR777 receives and decodes video and audio at programmable DVB QPSK symbol rates from 2 to 30 MSps. The output includes one NTSC or PAL composite analog video, one stereo analog audio pair, and a data channel.

Tiernan products are fully compliant with MPEG-2 and DVB standards and can be used in systems with equipment from any MPEG-2/DVB compliant manufacturer.

The TDR777 is simple to operate using a front panel keypad and LCD display. The display is illuminated for enhanced visibility in a wide range of operating environments. The rugged chassis is lightweight and can be configured for rack-mount as well as desktop installations.



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TECHNICAL SPECIFICATIONS

Input	<ul style="list-style-type: none">• L-Band, 950-2150 MHz, F-connector (female)• Variable QPSK signal rate from 2 to 30 MSps• Input levels -65 to -25 dBm• DVB-compliant FEC decoding, deinterleaving and descrambling• Return loss greater than 8 dB
LNB Power	Supplied through the L-band feed cable, 13V,18V, or Off selectable, 350 mA maximum
Video Processing	<ul style="list-style-type: none">• MPEG-2 Main Profile @ Main Level (ISO/IEC 13818-2)• Compressed video rates from 1 to 15 Mbps• Horizontal resolution of 720, 704, 544, 480 and 352 pixels• Vertical resolutions of 240/480 (NTSC) and 288/576 (PAL)• Horizontal and vertical filtering for SIF expansion to ITU-R recommendation BT-601• 4:3 aspect ratio
VBI	Tiernan-proprietary closed captioning (Line 21)
Video Output	Composite analog NTSC or PAL (including PAL M) - BNC female
Audio Processing	<ul style="list-style-type: none">• MPEG Layer I or Layer II• Sampling rates of 32, 44.1, and 48 kHz• Input rates from 64 to 384 kbps
Audio Output	<ul style="list-style-type: none">• One analog stereo pair balanced on XLR (male)• Per EIA/TIA - 250 - C• Audio channels may be used in stereo mode or as two independent mono channels
Data Output	One data output configurable as EIA-232 asynchronous on a DB-9 connector (female) at 75 bps - 19.2 kbps
Conditional Access	PGCA Tiernan-proprietary conditional access
Remote Control	EIA-232-D on a DB-9 (male) connector, DCE, ASCII commands
Front Panel Control	Menu-driven illuminated LCD display with keypad for configuration, TV service identification, status and monitoring
Physical Specifications	<ul style="list-style-type: none">• 1U rack mount — 4.4 cm high, 43.2 cm wide, 42.4 cm deep (1.75" x 17.0" x 16.7")• Weight: 6.04kg/13.5 lbs Maximum
Power Supply	<ul style="list-style-type: none">• Auto-sensing, auto-ranging 90 to 240 VAC• 50/60 Hz universal power supply• 45 Watts maximum consumption
Operating Conditions	<ul style="list-style-type: none">• Temperature: 0° to 50° C

U.S.A./Canada: 3138 East Elwood Street, Phoenix, Arizona 85034 USA Tel: +(1) 602.437.9620 Fax: +(1) 602.437.4811

6340 Sequence Drive, San Diego, California 92121 USA Tel: +(1) 858.458.1800 Fax: +(1) 858.657.5400

Europe/Middle East/Africa: 8, Oriol Court, Omega Park Wilson Road, Alton, GU34 2YT, United Kingdom Tel: +(44) 1420.544.200 Fax: +(44) 1420.88.999

Latin America: 7700 Congress Ave., #2105, Boca Raton, Florida 33487 USA Tel: +(1) 561.988.1210 Fax: +(1) 561.988.8290

China: Room 405, Building B, Heqiao Mansion, No. 8 Guanghua Road, Chaoyang District, Beijing 100026 China Tel: +(86) 10.658.31975 Fax: +(86) 10.658.31974

Asia-Pacific: 15 McCallum Street, #12-04, NatWest Centre, Singapore 069045 Tel: +(65) 6225.4016 Fax: +(65) 6325.1950

Jl M.T. Haryono Kav 25, Jakarta, Indonesia 12820 Tel: +(62) 21.521.3733 Fax: +(62) 21.252.0142

www.radn.com

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