



# DAC7000

## Professional Audio Encoder/Multiplexer



### HIGHLIGHTS

- ¾ SCPC Operation
- ¾ Codec support includes Industry Standard ISO/MPEG Layer II
- ¾ Encodes 1 Stereo pair (2 mono)
- ¾ Balanced Analog and AES/EBU Audio Inputs
- ¾ Compatible with all Legacy Radyne ComStream Audio networks including the ABR202/200 and DAC700/400
- ¾ Full Featured Front Panel Monitor and Control
- ¾ Headphone Jack Monitor
- ¾ 1 RU Chassis

### Description

Tiernan's DAC7000 is the newest and most integrated digital audio encoder in our audio lineup and is compatible with all Radyne ComStream legacy audio products including the DAC700 when serving as an encoder.

The DAC7000 allows operators to save space-segment transmitting narrow-band carriers for each audio stream. By connecting a Modem and transmission equipment to a DAC7000, unlimited audio receivers can be added to complete the network and receive the broadcast.

### Industry Standard Encoding

The DAC7000 digitally encodes audio and multiplexes data using industry standard ISO/MPEG Layer II. 7 different audio rates allow the network to select between audio quality and transmission costs. User data along with relay/cue signals can be multiplexed into the encoded audio stream allowing for completely automatic operation at remote sites using the ABR202A, 202 or 200.

### SCPC Operation

SCPC (Single Carrier Per Channel) support for networks based on Radyne ComStream's legacy DAC 700/400 codec and ABR202/200 receiver is provided with the DAC7000. The DAC7000 can be used to replace the encoding functionality of the DAC700 or as an additional encoder in a DAC700/400 installation. The DAC7000 is compatible with popular Modems including the Radyne DMD20 and CM701/601 as well as redundancy switches including the Radyne RCS11, CX101, CX801 and AX801.

### Applications

Tiernan audio networks are in place in more than 50 countries, sending audio information to customers of such diverse businesses as:

- National radio networks including multiple channels in different languages
- Automated commercial radio distribution networks
- In-store audio networks for retailers with regional advertising

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### TECHNICAL SPECIFICATIONS

Audio Encoding	
<b>ISO/MPEG Layer II:</b>	<ul style="list-style-type: none"><li>• 12:1, 8:1, 6:1 compression factors</li><li>• 64,96,128,192,256, 384 Kbps</li><li>• Mono, Dual Mono (stereo), Joint stereo modes</li></ul>
<b>Audio Ports:</b>	<ul style="list-style-type: none"><li>• Analog Inputs, L/R Stereo pair, Balanced, DB 9 Female Connector</li><li>• Digital Inputs, AES/EBU, Balanced Stereo, DB-15 Female Connector</li></ul>
<b>Auxiliary Data Processing:</b>	<ul style="list-style-type: none"><li>• Async Channels: 1200, 2400, 4800, 9600 bps, EIA-232; DB-9 Female Connector</li></ul>
<b>TTL Sensor Inputs</b>	<ul style="list-style-type: none"><li>• Optically Isolated, 16 Inputs, DB-37 Female Connector</li></ul>
<b>Management &amp; Control:</b>	<ul style="list-style-type: none"><li>• RS-232 Proprietary Command Line Monitor &amp; Control (ASCII) or RS-485 Tiernan/ComStream Packet Protocol, DB-9 Female Connector</li><li>• Smart Front Panel Control</li><li>• Status Fault Relay</li></ul>
<b>Physical:</b>	<ul style="list-style-type: none"><li>• 1RU Standard 19" Rack-Mount – 4.5 cm High x 48.3 cm Wide x 45 cm Deep (1.75" x 19" x 17.7")</li><li>• Weight Less Than 5.5 kg (12 lbs.)</li></ul>
<b>Power Supply:</b>	<ul style="list-style-type: none"><li>• Auto-Sensing, Auto-Ranging 90-240 VAC, 50-60 Hz Universal Power Supply</li></ul>
<b>Operating Conditions:</b>	<ul style="list-style-type: none"><li>• Ambient Temperature: 0° to 50°C</li></ul>
<b>Safety &amp; Emissions:</b>	<ul style="list-style-type: none"><li>• CE Certification</li></ul>
<b>Optional Equipment (sold separately):</b>	<ul style="list-style-type: none"><li>• DB-9 or DB-15 to XLR Audio Cables</li></ul>

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Prices, specifications, and availability subject to change without notice.

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