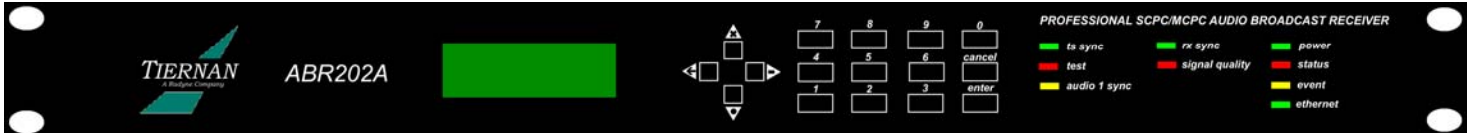




# ABR202A

## Professional Audio Broadcast Receiver



### HIGHLIGHTS

- Digital audio satellite receiver for SCPC/MCPC broadcast of audio, data, relay signals
- Functionally backwards compatible with ABR202 and ABR200, DAC700/400
- Decodes 1 Stereo pair (2 mono)
- Supports industry standard ISO/MPEG layer II decoding
- DVB transport stream de-multiplexer for MCPC operation
- L-band demodulator supporting SCPC data rates from 64 kbps to 384 kbps
- TCP/IP protocol stack for IP packet forwarding
- Front Panel, Telnet, Serial and Browser-based monitor and control
- 1RU chassis
- 8 Relay Contact Closures

### Description

Tiernan's ABR202A digital audio receiver is your solution for broadcasting audio by satellite. Applications include radio program and news distribution, point-of-purchase audio with advertising insertion, and data broadcast distribution.

Compared to the ABR202, the ABR202A saves rack space by utilizing a 1RU Chassis, provides additional convenience with front panel, Ethernet, and web browser capability: The ABR202A is upgradeable to MCPC operation using a DVB-S or DVB-S2 Demodulator, and will upgrade to IP Data in the near future.\*

CD-quality audio, RS-232 or RS-422 asynchronous data, receiver control signals, and cue signals (relay closures) are standard features on the ABR202A.

### Audio Compression

The ABR202A receiver uses the ISO/MPEG Layer II compression algorithm, an industry standard with international support.

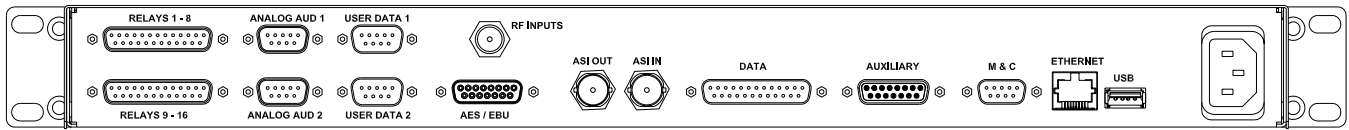
### Key Standard Features

- BPSK or QPSK operation at user-selectable data rates of 64, 96, 112, 128, 192, 256, or 384 kbps
- Mono and dual-mono (stereo) modes
- Quick channel access using SCPC/FDM allows quick, nearly transparent audio channel changes for receiving multiple channels
- Addressable for complete configuration and operation from uplink via an in-band control channel
- Control channel and remote control ports are 100% compatible with all Radyne ComStream audio network products
- Relay control port with eight contact closures for control of downlink equipment, each relay independently controlled at the uplink
- Seven TTL inputs for local channel changes and auxiliary equipment monitoring
- Asynchronous RS-232 data port operating at speeds of 300 to 9600 baud, providing simultaneous audio and background data
- Receiver operating software can be upgraded over the satellite link
- Built-in performance monitoring and automatic fault reporting with optional external telco modem
- Built-in audio, relay control, and data port diagnostics

\* Contact factory for availability

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### TECHNICAL SPECIFICATIONS

<b>Audio Decoding</b>	
<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 Output, L/R Stereo pair, Balanced, DB 9 Female Connector</li> <li>Digital Output, AES/EBU, Balanced Stereo, Qty 1 DB-15 Connector</li> </ul>
<b>RF Input</b>	<ul style="list-style-type: none"> <li>BPSK/QPSK, 950 – 1700 MHz, 64 kbps – 45* Mbps, Qty 1, 75 Ohm Type-F Connector</li> </ul>
<b>Auxiliary Data Processing:</b>	<ul style="list-style-type: none"> <li>Async Channel: 1200, 2400, 4800, 9600 bps, EIA-232; Qty 1 DB-9 Connector</li> <li>Async Channel: RS-232 and RS-485. Radyne ComStream Packet Protocol or ASCII, Qty 1 DB-9 Connector</li> </ul>
<b>Ethernet</b>	<ul style="list-style-type: none"> <li>10/100 BaseT</li> <li>Telnet for Monitor and Control</li> <li>Web Browser for Monitor and Control*</li> </ul>
<b>Relay/Control Outputs</b>	<ul style="list-style-type: none"> <li>8 ea., Form-C Relay Contact Closures, Individually Controlled, Qty 1 DB-25 Connector</li> </ul>
<b>Management &amp; Control:</b>	<ul style="list-style-type: none"> <li>Telnet for Monitor and Control</li> <li>Embedded Web Browser Interface For Command and Control*</li> <li>RS-232 Proprietary Command Line Monitor &amp; Control (ASCII), Qty 1 DB-9 Connector</li> <li>RS485, Qty 1, DB-9 Connector</li> <li>Fully functional Front Panel control</li> </ul>
<b>Physical:</b>	<ul style="list-style-type: none"> <li>1RU Standard 19" Rack-Mount – 4.5 cm High x 40 cm Wide x 58.4 cm Deep (1.75" x 19" x 15.75")</li> <li>Weight Less Than 2.7 kg (6 lbs.)</li> </ul>
<b>Power Supply:</b>	<ul style="list-style-type: none"> <li>Auto-Sensing, Auto-Ranging 85-265 VAC, 50-60 Hz Universal Power Supply, 44 Watts (Typical)</li> </ul>
<b>Operating Conditions:</b>	<ul style="list-style-type: none"> <li>Ambient Temperature: 0° to 50°C</li> </ul>
<b>Optional Modules</b>	
<b>RF Input*</b>	<ul style="list-style-type: none"> <li>DVB-S and DVB-S2 Compliant Satellite Demodulator for data rates of 1 – 81 Mbps</li> </ul>
<b>Advanced Audio Decoder*</b>	<ul style="list-style-type: none"> <li>aacPlus Module</li> <li>H.264/AAC Module</li> </ul>

- Contact factory for availability

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