



ABR202A

Professional Audio Broadcast Receiver



HIGHLIGHTS

- ¾ Digital audio satellite receiver for SCPC broadcast of audio, data, relay signals
- ¾ Functionally backwards compatible with ABR202 and ABR200, DAC700/400
- ¾ External Store & Forward
- ¾ Decodes 1 Stereo pair (2 mono)
- ¾ Supports industry standard ISO/MPEG layer II decoding
- ¾ L-band demodulator supporting SCPC data rates from 64 kbps to 384 kbps
- ¾ Front Panel, Telnet, Serial and Browser-based monitor and control
- ¾ 1RU chassis
- ¾ 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 and Telnet capability.

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 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 1200 to 9600 baud, providing simultaneous audio and background data
- Built-in performance monitoring and automatic fault reporting
- Built-in audio, relay control, and data port diagnostics

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TECHNICAL SPECIFICATIONS

Audio Decoding	
ISO/MPEG Layer II:	<ul style="list-style-type: none"> • 12:1, 8:1, 6:1 compression factors • 64,96,128,192,256, 384 Kbps • Mono, Dual Mono (stereo), Joint stereo modes
Audio Ports:	<ul style="list-style-type: none"> • Analog Output, L/R Stereo pair, Balanced, DB 9 Male Connector • Digital Output, AES/EBU, Balanced Stereo, DB-15 Female Connector
RF Input:	<ul style="list-style-type: none"> • BPSK/QPSK, 950 – 1700 MHz, 64 kbps – 384 kbps, 75 Ohm Type-F Female Connector • FEC Rates: Sequential 1/2, 3/4, Intelsat Viterbi 1/2, DVB-S 1/2, 2/3, 3/4, 5/6, 7/8 • Scrambling: ComStream and IESS-308 (IDR) • Sensitivity: -75dBm to -20dBm • LNB Power: Selectable 0VDC, 13VDC, 14VDC, 18VDC, and 19VDC
Auxiliary Data Processing:	<ul style="list-style-type: none"> • Async Channel: 1200, 2400, 4800, 9600 bps, EIA-232; DB-9 Female Connector or DB-25 Female Connector • Auxiliary Input/Output for External Store & Forward; DB-15 Female Connector
Relay/Control Outputs:	<ul style="list-style-type: none"> • 8 Form-C Relay Contact Closures, Individually Controlled, DB-25 Male Connector
Management & Control:	<ul style="list-style-type: none"> • RS-232 Proprietary Command Line Monitor & Control (ASCII) or RS-485 Tiernan/ComStream Packet Protocol, DB-9 Female Connector • Smart Front Panel Control w/ Security • 10/100 BaseT RJ-45 Female Connector • Telnet for Monitor and Control • Status Fault Relay
Physical:	<ul style="list-style-type: none"> • 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") • Weight Less Than 2.7 kg (6 lbs.)
Power Supply:	<ul style="list-style-type: none"> • Auto-Sensing, Auto-Ranging 85-265 VAC, 50-60 Hz Universal Power Supply
Operating Conditions:	<ul style="list-style-type: none"> • Ambient Temperature: 0° to 50°C
Safety & Emissions:	<ul style="list-style-type: none"> • CE Certification
Optional Equipment (sold separately):	<ul style="list-style-type: none"> • C-band and Ku-band PLL and DRO LNBS • DB-9 or DB-15 to XLR Audio Cables

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

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