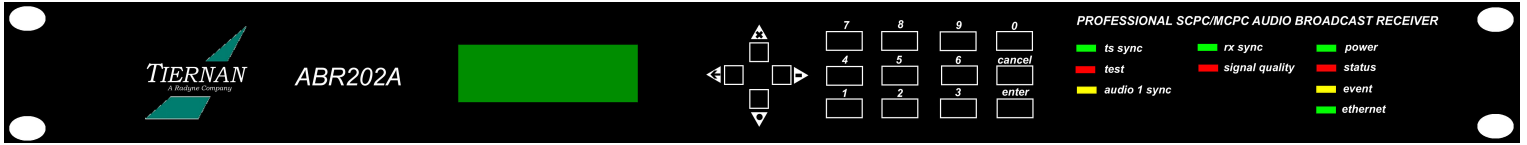# ABR202A
Professional Audio Broadcast Receiver

HIGHLIGHTS

➢ Digital audio satellite receiver for SCPC/MCPC broadcast of audio, data, relay signals

➢ Functionally compatible with ABR202 and ABR200

➢ Decodes 1 Stereo pair (2 mono)

➢ Supports industry standard ISO/MPEG layer II decoding

➢ DVB transport stream demux for MCPC operation

➢ L-band demodulator supporting data rates from 64 kbps

➢ TCP/IP protocol stack for IP packet forwarding

➢ Front Panel, Telnet, Serial and Browser-based monitor and control

➢ 1RU high chassis

➢ 8 Relay Contact Closures

DESCRIPTION

The Tiernan 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 adds the following benefits:
- Saves rack space by utilizing a 1RU chassis
- Provides additional convenience with front panel, telnet and browser control
- Upgrade to MCPC audio and IP data receiver

Along with CD-quality audio, each ABR202A outputs RS-232 or RS-422 asynchronous data, receiver control signals, and cue signals (relay closures).
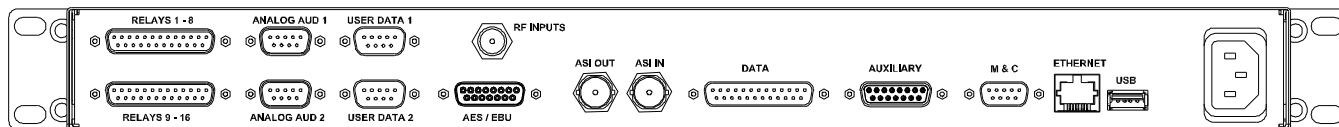
AUDIO COMPRESSION

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

KEY FEATURES

- BPSK or QPSK operation at user-selectable data rates of 64, 96, 112, 128, 192, 256, or 384 kbps
- Mono, dual-mono (stereo) or joint 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

ABR202A
Professional Audio Broadcast Receiver

TECHNICAL SPECIFICATIONS

AUDIO DECODER

ISO/MPEG Layer II	• 12:1, 8:1, 6:1 compression factors • 64,96,128,192,256, 384 Kbps • Mono, Dual Mono (stereo), Joint stereo modes

PORTS

Audio	• L/R stereo pair, balanced + and – outputs each, DB-9 male
User Data	• Async RS-232, 1200,2400,4800, and 9600, DB-9 female
Monitor And Control	• Async RS-232 and RS-485. Radyne ComStream Packet Protocol or ASCII, DB-9 Female
Relay/Control	• 8, Form C, individually controlled, DB-25 Male
AES/EBU	• DB-15 Female
Ethernet	• 10/100 Base T
RF IN	• 950 – 1700 MHz, F connector, 75 ohm • 64 kbps – 45* mbps tuner

PLANNED MODULES

High-Rate Demodulator	• DVB-S2 compliant satellite demodulator for data rates up to 81 mbps
Advanced Audio Decoder	• Adds aacPlus and MPEG-4 AAC codecs • Will be able to support advanced codecs as they emerge

* Consult a Tiernan sales representative regarding these features and additional product capabilities.

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