INTERNATIONAL DATACASTING

ABR202A
Satellite Audio Receiver

Features

- Digital audio satellite receiver for SCPC broadcast of audio, data, and relay signals
- Functionally backwards compatible with ABR202, ABR200 and DAC700/400
- Decodes 1 stereo pair (2 mono)
- Supports industry standard ISO/MPEG Layer II decoding
- L-Band demodulator supporting SCPC data rates from 64 Kb/s to 384 Kb/s
- Front panel, Telnet, serial and Web-based monitor and control
- Eight relay contact closures

Ideal for radio program and news distribution, point-of-purchase audio distribution, the ABR202A is the solution for legacy audio broadcasting by satellite.

The ABR202A is the latest generation replacement receiver for the legendary ABR professional audio product line.

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 asynchronous data, receiver control signals and cue signals (relay closures) are standard features on the ABR202A.

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

Capabilities

- BPSK or QPSK operation at user-selectable data rates of 64, 96, 112, 128, 192, 256 or 384 Kb/s
- 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 existing DAC700 and ABR200/202 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

TECHNICAL SPECIFICATIONS—ABR202A Satellite Audio Receiver

AUDIO SPECIFICATIONS	
Audio Decoding ISO/MPEG Layer II	• 12:1, 8:1, 6:1 compression factors • 64, 96, 128, 192, 256, 384 Kb/s • Mono, Dual Mono (stereo), joint stereo modes
Audio Ports	Analog output, L/R stereo pair, balanced, DB-9 Male connector Digital output, AES/EBU, balanced stereo, DB-15 Female connector
RF Input	BPSK/QPSK, 950-1700 MHz, 64 Kb/s - 384 Kb/s, 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	Legacy and IESS-308 (IDR)
Sensitivity	-75 dBm to -20 dBm
LNB Power	Selectable 0VDC, 13VDC, 14VDC, 18VDC, 19VDC
AUXILIARY DATA PROCESSING	
• ASYNC Channel: 1200, 2400, 4800, 9600 bps, EIA-232; DB-9 Female connector or DB-25 Female connector • Auxiliary input/output for external store-and-forward; DB-15 Female connector	
RELAY AND CONTROL OUTPUTS	
• 8 Form-C relay contact closures, individually controlled, DB-25 Male connector	
MANAGEMENT AND CONTROL	
• RS-232 proprietary command line monitor and control (ASCII) or RS-485 packet protocol, DB-9 Female connector • Smart front panel control with security • 10/100 Base-T RJ-45 Female connector • Telnet for monitor and control • Status fault relay	
POWER REQUIREMENTS	
Supply Voltage	Autosensing, Autoranging 85-265 VAC, 50-60 Hz
Power Consumption	60 Watts maximum
PHYSICAL PARAMETERS	
Chassis	1RU rackmount
Dimensions (H, W, D)	4.5 cm x 48 cm x 58 cm (1.75” x 19” x 22”)
Weight	2.7 kg (6 lbs.)
ENVIRONMENTAL CONDITIONS	
Operating Temperature	0° to 45° C (32° to 113° F)
Storage Temperature	-20° to 70° C (-4° to 158° F)
Humidity	Max 90% relative, non-condensing
Safety and Emissions	CE Certification