

RRR-01

Versatile Professional AM-FM Receiver System



The RRR-01 AM-FM Receiver is a practical and versatile unit having applications, not only in the Broadcast Industry, but also in other Professional Applications requiring Highly Stable, High Quality Broadcast Receivers

The RRR-01 is Rack Mounting, requiring 1 RU of Rack Space and is based on the Philips high performance TEA 6845H Car Radio front end IC used in "Upmarket" European Car Radios

FEATURES

- High Impedance Antenna Input, allowing several RRR-01 receivers to feed from one antenna
- Stable Crystal Locked, Microprocessor Controlled Tuning
- MW AM Band 522 KHz, extended to 1728 KHz for Narrowcast, Tuned in 9 KHz Steps
- Standard FM Band 87.5 MHz to 108.1 MHz, Tuned in 100 KHz Steps
- Band Switching, Tuning and Calibration protected against accidental operation
- Facility for Pre-Programming up to 32 Local Radio Station Frequencies for Remote Recall
- RS-485 Control Input to allow Remote Control Recall of Pre Programmed Stations
- AM or FM Mode is displayed by LED's, Tuned Frequency on 4 x 7 Segment LED Display
- RCA Type 300 mV Unbalanced Left and Right Outputs
- XLR Type 0 dBu Balanced output with Muting Relay
- 3.5 V PP Composite Stereo Output for Rebroadcast of FM Stereo Signal
- 4 LED Carrier Level Display indicating status of Carrier Level
- 4 LED PPM Mono Audio Level Display
- Stereo Headphone Outlet
- AGC Level Output, allowing operation with the Elan Audio RRA-01 accessory unit
- Operation from Standard 220 to 250 V AC Mains, or 12V DC

APPLICATIONS

- Off-Air Monitor or general Fixed Tuned Receiver
- Off-Air Monitor Receiver System in conjunction with the Elan Audio RRA-01 Accessory Unit
- Re-Broadcast Receiver for Tunnel Broadcast Repeater Systems
- Solar Powered Low Power AM or FM Re-Broadcast Applications
- Primary Radio Broadcast Receiver for distributed MATV Systems in Hotels, Hospitals etc
- General Re-Broadcast Applications
- "Spy" Receiver for Radio Station Newsrooms, controlled via RS-485 Data Bus
- General High Quality AM-FM Hi-Fi Tuner

TECHNICAL SPECIFICATIONS

Antenna Input Car Antenna Type, High Impedance

AM Performance

Tuning Steps 9 KHz
Frequency Coverage 522 to 1728 KHz
AF Frequency Response WRT 400 Hz +0 –1 dB 30 Hz to 2.8 KHz
-2 dB 3.5 KHz
-3 dB 3.9 KHz
-6 dB 4.4 KHz
-9 dB 4.7 KHz
-12 dB 4.9 KHz
Distortion WRT 400 Hz 40% Modulation 0.41%
90% Modulation 0.68%
Signal to Noise Ratio WRT 100% Mod RF Level 10 uV 30 dB
RF Level 100 uV 48 dB
RF Level 1 mV 58 dB
RF Level 10 mV 60 dB
RF Level 100 mV 60 dB
AGC Performance RF Level 10 uV to 100 mV
AF Level Variation 0.1 dB
Max RF Input Level 500 mV

FM Performance

Tuning Steps 100 KHz
Frequency Coverage 87.5 to 108.1 MHz
AF Frequency Response WRT 50 u Sec Pre Emphasis
Better Than + and – 1 dB 20 Hz to 15 KHz
Distortion 400 Hz 40% Modulation 0.1%
400 Hz 100% Modulation 0.15%
Channel Separation Typical 45 dB
Signal to Noise Ratio Typical 71 dB
Max RF Input Level 500 mV
Composite Output Level 3.5 V PP at 400 Hz 100 % Modulation

Audio Outputs

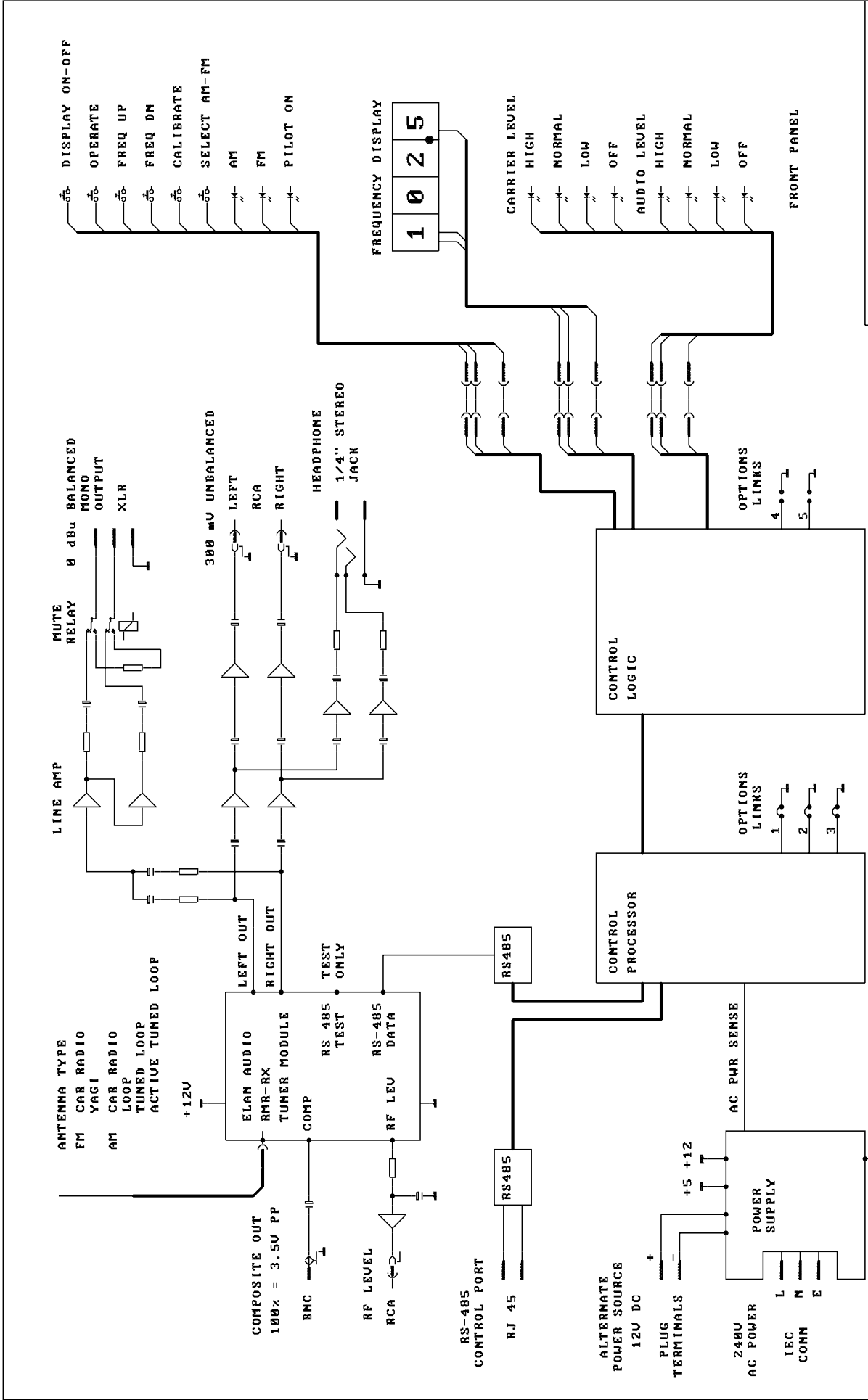
Unbalanced 2 x RCA, 300 mV Stereo
Balanced 1 x XLR Male 0 dBu Mono

AGC Level Output

Compatible with Elan Audio RRA-01 unit

Physical

Power 220-260V AC 5 VA
12V DC 270 mA Display On
12V DC 200 mA Display Off
Size W 482.6 mm x H 44.4 mm x D 270 mm
Size packed in Carton W 520 mm x H 75 mm x D 310 mm
Weight Packed in Carton 2.7 KG



ELAN AUDIO AUSTRALIA			
Title BLOCK DIAGRAM RRR-01			
Size Number RRR01BK Revision			
43	RRR01BK		
Date: 9-OCT-2002		Sheet	of
FILE: RRR01BK1		Drawn	By:

RRR-01 VERSATILE AM-FM BROADCAST RECEIVER