



The Eagle On-Air Mixer is of true modular design and construction based on 6 different plug-in removable active modules and passive backplane boards mounted in the chassis. It features a choice of balanced stereo line inputs, balanced microphone inputs and multiple telephone inputs with 1 stereo plus 4 mono mix minus buses. AES-EBU digital input and output options are also available.

Several sizes of chassis are available to order, with standard 12 and 16 input versions available, and options from 8 to 30 inputs including split configuration and script space versions. The chassis is designed in an attractive low profile protruding only 100 mm below and 85 mm above the desk top. It is solidly constructed from welded steel, painted Anotec dark grey and enhanced by polished timber end trim strips crafted from unique West Australian Sheoak. A hinged riser cowl located at the rear of the modules gives access to all input, output and control connections.

The Eagle Mixer is designed for quick and easy installation. All input, output and control connections are available on removable screw terminals with some duplicated on RJ-45 connectors. Cable access holes are provided below table height, right across the back of the chassis with a generous amount of lacing bars to secure the cabling.

Most of the Eagle's function settings are PC configurable. The stereo and auxiliary mix minus bus, monitor mute control bus, on air light relay, machine start relay (plus many more) can be turned on and off, assigned to any channel and to the Program or Audition bus via PC. The mixer configuration can be stored as a profile and up to three profiles can be stored.

The riser features are fully customisable. Available are 2 banks of High Level Selectors, Cue Speaker, Clock/Timer, LED or Analog VU Meter Display, Monitor Select Switch Bank, Annunciator Display and On Air Delay Controller.

## MAIN FEATURES

- Choice of Balanced Microphone, Balanced Stereo Line, Digital SPDIF/AES-EBU Inputs
- Optional Digital AES-EBU Output
- Dual Bus Balanced Stereo Outputs
- 1 Stereo Plus 4 Mono Mix Minus Buses
- Low profile design
- Easy to setup and maintain, Australian Made
- PC configurable settings
- Customisable Riser
- LED VU Meters - SMPTE Clock/Timer
- Cue Speaker - Mimic Indicators
- Comprehensive Monitor Facilities
- 9 Point Studio to Studio Intercom
- Connections by Pluggable Terminals and RJ45 sockets

The Eagle Mixer is based on 6 different Plug-In Modules and Sub Assemblies

- EIN-301 Input Module
  - EMI-301 Microphone Input Board
  - EAI-301 Balanced Line Analog Stereo Input Board
  - EDI-301 AES-EBU Digital Input Board
- EAI-301 Balanced Line Analog Stereo Input Board
- EMO-301 Master Line Output Module
- EMC-301 Monitor Control Module
- EHC-301 Headphone Control Module
- ECC-301 Cue Control Module
- ETB-301 Talkback Module
- Blank module for custom functions

### EIN-301 Input Module

The EIN-301 is the base module used for Microphone, Balanced Line Analog Stereo and Digital Line Inputs. Three different Input Boards are available to customise the basic EIN-301 Module.

### EIN-301 Base Module

- Penny and Giles Conductive Plastic Fader
- Silent Click Free Audio Switching to Outputs
- High Quality LED Illuminated E.A.Olten Channel On-Off and Cue Switches
- Manual LED Illuminated Selector Switches for Stereo Program and Audition Buses
- Programmable Switching to Stereo Auxiliary, Mono Auxiliary 1. 2. 3 and 4 Buses, and Telephone Mix Minus Bus
- Mono Cue Bus, Mic Cleanfeed Bus, Setup Data Bus Input
- Module Address DIP Switch

### EMI-301 Microphone Input Board (Sub assembly)

- 48V DC Microphone Phantom Power Supply
- Low Noise Balanced Line Microphone Pre-Amplifier
- Coarse Input Gain Control Links to make the EMI-301 suitable for any type of conventional Microphone
- Switchable LF Cut
- Rotary Gain Control Potentiometer
- Limiter with LED Indicator and On-Off Switch
- Floating Start-Stop Relay Contacts
- Cough Mute Input , Remote On Off Input

### **EIA-301 Balanced Line Analog Stereo Input Board (Sub assembly)**

- Balanced Line Analog Stereo Inputs
- Sufficient gain to accept Unbalanced -10 dBu Hi-Fi Level
- Stereo to Mono Link
- Left Input Mono Link
- Gain Control Pre-Set Potentiometers accessible from the terminal compartment without having to remove module
- Floating Start-Stop Relay Contacts
- Remote On-Off switching through Opto Inputs

### **EDI-301 AES-EBU Digital Input Board (Sub assembly)**

- Transformer Balanced Input
- Accepts 16, 20 and 24 Bit Digital Signal
- Accepts 32, 44.1, 48 and 96 KHz Sample Rates
- Gain Control Pre-Set Potentiometers accessible from the terminal compartment without having to remove module
- Floating Start-Stop Relay Contacts
- Remote On-Off switching through Opto Inputs
- SPDIF and Optical inputs

## **CONTROL MODULES**

### **EMO-301 Master Line Output Module**

- 10 Mixing Bus Summing Amps with Gain Pre-Set Potentiometers
- Buffer Amplifiers and Balanced Line Output Amplifiers
- Buses are Program Left and Right, Audition Left and Right, Stereo Aux Left and Right and Mono Aux 1 to 4
- Sum and Buffer Amplifiers are Surface Mount
- Line Amplifiers are Plug-In type for easy replacement in case of accidental damage

### **EMC-301 Monitor Control Module**

- Balanced Stereo Inputs from Program, Audition and External Monitor Selector
- Silent Audio Input Source Switching
- Mono Check Switch
- Penny and Giles Conductive Plastic Fader
- Monitor Dim and Monitor Mute Switches
- Balanced Line Output to Monitor Amplifier
- Feed to Announcers Headphone Module
- Balanced Line VU Meter Feed with Programmable Source Selection and Impedance selection links
- Setup Data Bus Input
- Interlock Bus Inputs

### **EHC-301 Headphone Control Module**

- Presenters and Guest Headphone Control
- Presenters Program Feed same as selected for Monitoring
- Headphone Program Volume Control via VCA and Rotary Digital Encoder Switch

- Split Cue System, Cue Signal to Presenters Right Headphone with Program Muted, Talkback to Right Headphone, VOX controlled Program Muting
- Presenters Headphone Amplifier
- Guest Headphone Input selectable from Program Output
- Audition Output and selected external monitor source
- Main Guest Headphone facilities identical to Presenters
- Balanced Line Level Stereo Guest Headphone output following Guest Headphone source selection suitable to feed additional Guest Headphones through external Headphone Amplifiers
- Setup Data Bus Input
- Interlock Bus Inputs

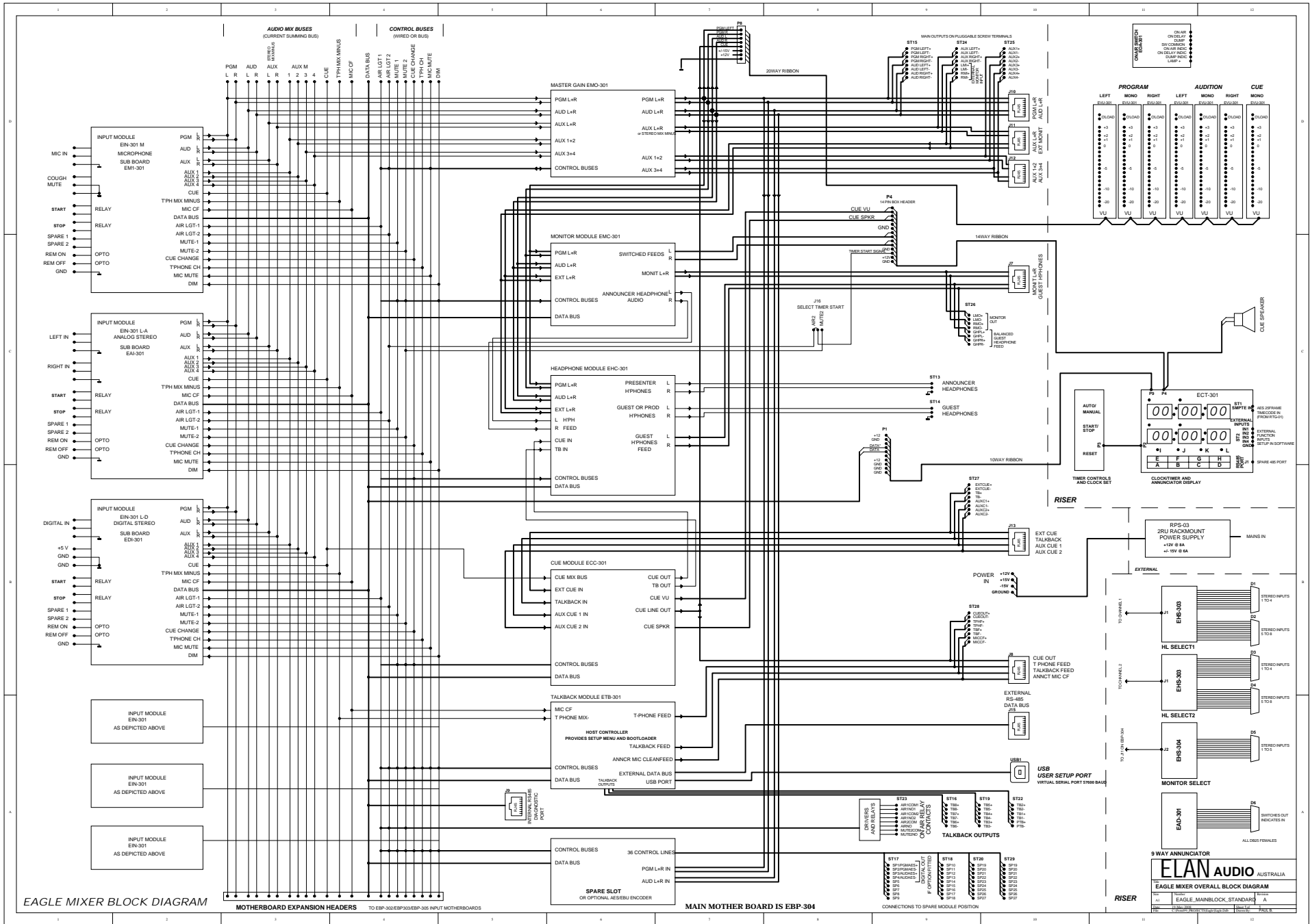
#### **ECC-301 Cue Control Module**

- Cue Bus Summing Amplifier
- External Cue Input from optional External Cue Selector Switch
- Selector Switches for Internal Cue Bus or External Cue Selection
- Balanced Cue Line Output and Cue VU Meter Feed
- Unbalanced Cue Feed to Headphone Control Module
- Cue Loudspeaker Volume Control via VCA and Rotary Digital Encoder Switch
- Balanced Line Level Talkback, Aux-1 Cue and Aux-2 Cue Inputs with conventional Volume Control Potentiometers
- Movable Links to prevent Talkback and Aux Cue Inputs from being turned completely off
- Click-Free Cue Speaker Mute and “Dim” Switches
- Cue Loudspeaker Amplifier
- Talkback and Aux Cue Feed to Headphone Module
- Programmable Muting of Aux Cue 1 and 2
- Setup Data Bus Input
- Interlock Bus Inputs

#### **ETB-301 Talkback Module**

- Presenters Microphone Summing Amplifier
- Balanced Line Presenters Microphone Clean Feed and Talkback Feeds
- Telephone Mix Minus Bus Summing Amplifier
- Click Free Switching between Presenters Microphone and Telephone Mix Minus
- Balanced Line Telephone Hybrid Feed
- Producer Talkback and 8 General Talkback Switches
- 3 Special Switches, Special Function, Screen Step and Activate to control Profiles
- Data Setup Bus Input
- Interlock Bus Inputs
- Host Controller, USB interface, bootloader and Menu server





EAGLE MIXER BLOCK DIAGRAM

ELAN AUDIO AUSTRALIA  
EAGLE MIXER OVERALL BLOCK DIAGRAM  
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