

PROGRAM FAIL DETECTOR / LINE CHANGEOVER



The RPF-03 Program Fail Detector is a versatile unit suitable for use at studio and transmitter sites as a general program fail detector, automatic line changeover and emergency program controller.

It is provided with 6 independent audio program fail detector channels which can be used as 6 independent mono or 3 independent stereo program fail detector channels.

The RPF-03 also features built in automatic stereo line changeover facilities, emergency program start, switched mains to the emergency device and line switching. This makes the RPF-03 extremely practical and of potential use in many applications.

Five ground to operate inputs are provided to override the automatic switching and force the unit to switch the link path as desired. The unit can be forced to switch program path 1 (LINK1), program path 2 (LINK2), program path 3 (LINK3) and emergency device. A fifth input is provided to run the emergency device without switching the audio to the output, useful when testing and setting up the emergency device and for remote testing of audio player. Link3 has an additional feature called the "Dialup" contact to operate an external device to initiate contact to an external audio source.

In addition to the individual fail alarm and common alarm relay contacts four open collector outputs are provided to show the output switching status of the RPF-03.

Program input is balanced XLR. The Emergency audio can be either balanced +4dBu or un-balanced -10dBu (DB9).

LED indication is provided for audio presence for each audio input, fail status for each Link input pair, emergency run indication, alarm output enable status, the current state of the automatic switchover and the monitor audio selection.

The RPF-03 has both DIP switch and software selectable fail and recovery times. The fail time is adjustable from 2 to 256 seconds in 1 second steps and the recovery time can be set from 2 seconds to 130 seconds in 2 second steps. The response time of activity from the fail sense circuits has a minimum time constant of 2 seconds, which helps to avoid false triggering.

A front panel USB port gives access to the status of the unit by a built in text server that can be used by any TTY applet such as Windows Hyper-terminal. This also gives the ability to set up all operating times and options externally without the need to open the unit.

Audio monitoring is provided by a 5 way stereo selector to a Headphone jack on the front panel with volume control. The RPF-03 has an optional balanced monitor audio output on a 9 pin D connector (fixed volume) available for connection to external audio monitoring devices.

The RPF-03 can be switched between using the internal DIP switch settings or software settings.

This is provided so you have a choice of setting up the unit as traditionally done as the RFP-03 predecessors or with a laptop or PC. The USB port also gives the option of leaving the unit permanently connected to a PC for remote access.

The RPF-03 has an optional LAN module which can provide TCP/IP access to a built in web server to give access to the RPF-03 status and control similar to the USB port but via LAN networks.

FEATURES SUMMARY

3 Stereo/6 Mono Program Fail Detector Channels

3 Stereo Changeover Channels

Relay Alarm Outputs

Adjustable Settings for Fail Delay Time, Audio Sensitivity and Recovery Time – manual or software set

Line Changeover Relays

Emergency Program AC Power Relay

Emergency Program Insertion

Front Panel Indication: Audio Presence, Fail Status, Emergency Status, Output Status

Front Panel Monitoring control

USB Port

Headphone jack and volume control. Optional balanced audio monitoring output.

Optional LAN module for TCP/IP access

SPECIFICATIONS

Program Line Inputs: Balanced +4dBu, XLR Female (3x Stereo/6 x Mono)

Emergency Program Input: Balanced +4dBu, XLR Female
Un-balanced -10dBu, DB9

Emergency Program Output: Balanced +4dBu, XLR Male

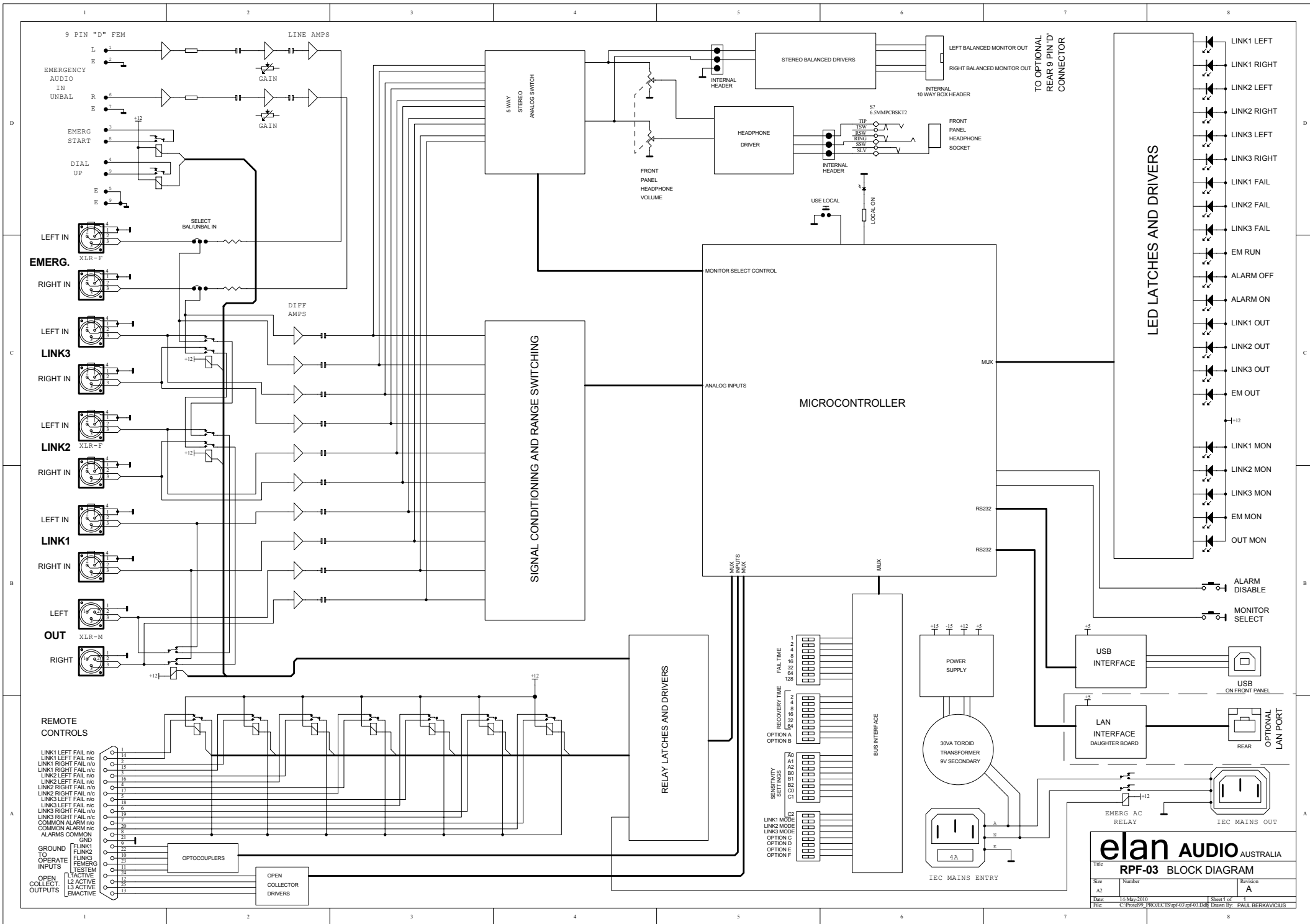
Remote Controls, Alarm Relays: DB25

Rack Size: 1RU

Power: 240V AC

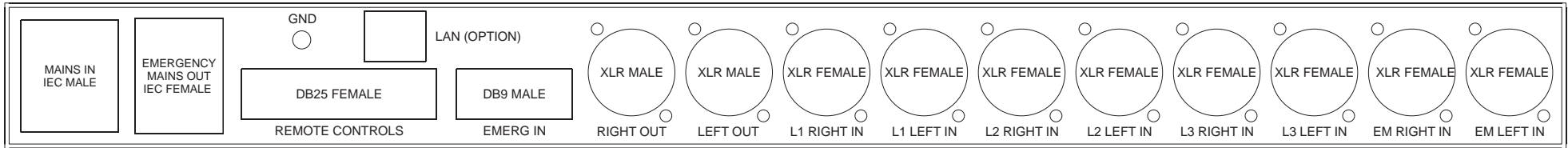
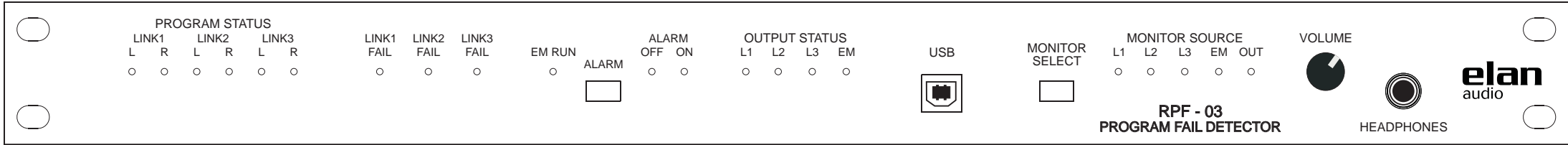


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RPF-03 BLOCK DIAGRAM

Size	Number	Revision
A2		A
Date:	14-May-2010	Sheet 1 of 1
File:	C:\pse\09 PROJ\13\pse\03\pse-01.DWG	Drawn by: PAUL BEBRKAVICUS



RPF-03 FRONT & BACK VIEW