REDBACK®
MP3 TONE GENERATOR & MESSAGE PLAYER

Product Overview

Designed to allow custom programming, tones, messages or music for use in interactive displays, security, customer entry and emergency evacuation announcements.

When combined with a Redback® A 1706 timer it can play announcements at prescribed times for in-store advertising and customer notification.

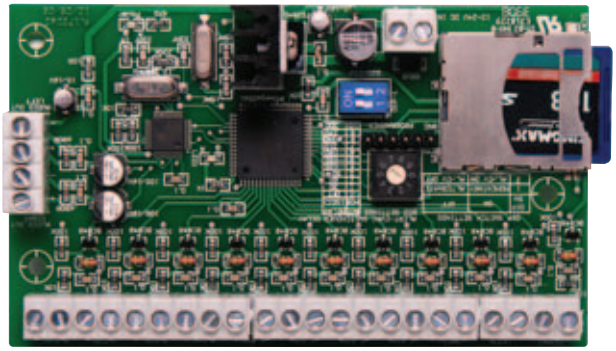
It allows up to 8 custom MP3 tracks plus standard alert and evacuation tones. A library of commonly used tones, messages and phrases are provided on a Secure Digital (SD) memory card. Custom MP3 tones, music etc may be added as desired.

The SD card is preloaded with 8 standard tones, including bell, bing bong, siren and pre-announcement chime, plus Australian Standard alert and evacuation tones (complying to AS1670.4).

To comply with Australian Standards for evacuation tones, a custom message may be played after every fourth cycle providing evacuation isntructions to occupants.

Alert tones can be automatically switched to evacuation tones after a set period (adjustable between 30 and 240 seconds)

Playback for each track can be activated by a closing set of contacts. Each contact may be configured between alternate or momentary action. This can include or exclude alert & evacuation tones as desired. Cancel contacts are provided to stop playback of tracks.



A 1720 module version is available for custom installation requirements.

Australian Made

10 Year Comprehensive Manufacturer Warranty

Key Features

- Connections are via easy pluggable screw terminal blocks
- Includes SD card
- Custom tracks
- Inbuilt tone & phrase library
- Tones conform to Australian standard
- Provision for voice over in evac mode.
- 12-24V DC operation
- Power supply available separately

Specifications

Power supply: ....8VDC to 30VDC 300mA (idle/maximum current draw 150mA) tip positive
Output: .....Stereo RCA 500mV nominal
MP3 sample rate: 44kHz
SD card size: .....256MB to 2GB (not compatible with SDHC cards.)
Trigger activation: .....Closing contact
A 1720 dimensions: .....120W x 70Dmm
A 1740 dimensions: .....44H x 115D x 210Wmm

MP3 info:
Length/size: .....Limited by card size (100mins @ 128kbps, 44kHz on supplied 1GB)
Bit rate: .....All standard MP3 rates (128kbps recommended)
Sample rate: .....All standard MP3 rates (44kHz recommended)
Channels: .....Stereo or mono

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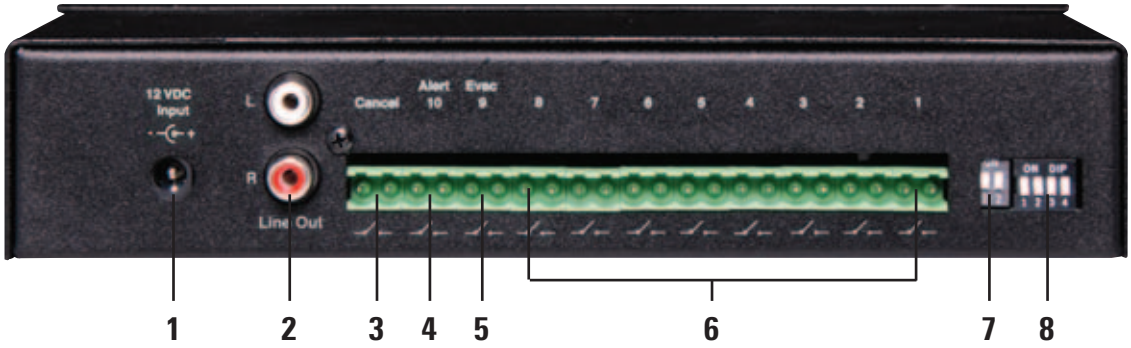
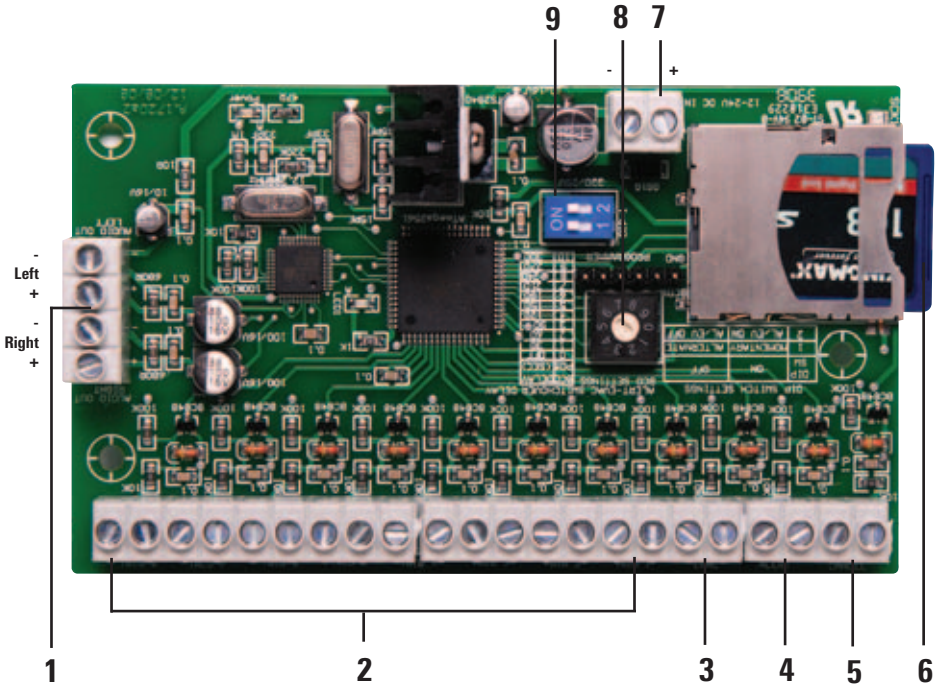


A 1740 Rear Panel

1. 12VDC Input (2.1mm tip positive)
2. RCA Line output
3. Cancel contacts
4. Alert (10) contacts
5. Evac (9) contacts
6. Message contacts 1-8
7. DIP switch 1
8. DIP switch 2
Note: See table 1 & 2 for DIP switch setup



A 1720 Layout

1. Stereo audio output
2. Trigger 1-8 inputs
3. Evac input
4. Alert input
5. Cancel input
6. SD card slot
7. Power input (8-30VDC)
8. BCD switch
9. DIP switch

A 1740 Operation Information

Note: A 1720 operation differs only in connection type.

Power requirements: The A 1740 needs a minimum of 8VDC at 300mA to work correctly. Maximum working voltage is 30VDC, do not exceed 30VDC as it will cause permanent damage to the unit. Typical working voltage is between 12 and 24VDC. The power is connected via the 2.1mm (tip positive) DC socket on the rear of the unit.

Output: Output is via the stereo RCA connectors on the rear. Output level is nominal 500mV but is related to the recorded level of the MP3.

Input triggers: The input triggers are activated by closing contacts whether by a normally open switch or a timer or controller.

Playback modes

Alternate: When the A 1740 is in Alternate mode (DIP1 switch1 OFF) the closing contact must be held for the duration of the MP3 play time, if it is released before the MP3 ends the MP3 will stop playing immediately. If the contact is held closed continually the MP3 will continue to loop over and over until the contact is released.

Momentary: In Momentary mode (DIP1 switch1 ON) a momentary closing contact or pulse on the trigger pins will activate the MP3. The A 1740 will continue to play the MP3 till it finishes and will stop playing and wait for another trigger activation.

To stop an MP3 playing when in Momentary mode the Cancel trigger is used. A momentary closing contact on the Cancel trigger will stop the MP3 playing (it is recommended that the Cancel contact be held up to 2 seconds to ensure the MP3 stops playing).

Emergency tones (Alert and Evacuation)

The Alert and evacuation tones conform to Australian Standards AS1670.4 and are used to notify building occupants of an emergency situation.

Alert: The Alert tone is activated by a closing contact on the ALERT trigger (Trigger10) and can be used in Alternate or Momentary setup as mentioned. The Alert tone comes with a change over option which forces the A 1740 to switch from Alert to the Evacuation tone after a prescribed time. Use DIP2 switch 1 to 4 adjust this time or switch off completely (see table 2).

Evacuation: The Evacuation tone is activated by a closing contact on the Evac trigger (Trigger9) and can be used in Alternate or Momentary setup as mentioned early in the instructions.

Evacuation message: A message (repeated twice) can be inserted every three evacuation cycles as per the Australian Standards. Voice message could be something like “please evacuate the building by the closest exit”. To install a Evacuation message on the A 1740 follow the Step by step guide to put a MP3 into Trigger1 with Windows XP installed PC but replace Trigger1 with Voice i.e. put the message into the Voice folder on the SD card and delete any other MP3 file located in the voice folder.

Priority: The Emergency tones have priority over other triggers (1 to 8) and if activated will stop any other MP3 and activate the selected emergency tone. Evacuation also has priority over Alert.

Play Mode & Tone Selection

Table 1: DIP1 Switch Settings

Switch 1	ON: Momentary
	OFF: Alternate
Switch 2	ON: Emergency Tones ON
	OFF: Emergency Tones OFF

Alert/Evac Switchover Time

Table 2: DIP2 Switch Settings

	DIP Switch			
	1	**2**	**3**	**4**
OFF	OFF	OFF	OFF	OFF
30 sec	ON	OFF	OFF	OFF
60 sec	OFF	ON	OFF	OFF
90 sec	ON	ON	OFF	OFF
120 sec	OFF	OFF	ON	OFF
150 sec	ON	OFF	ON	OFF
180 sec	OFF	ON	ON	OFF
210 sec	ON	ON	ON	OFF
240 sec	OFF	OFF	OFF	ON
270 sec	ON	OFF	OFF	ON
300 sec	OFF	ON	OFF	ON
330 sec	ON	ON	OFF	ON
360 sec	OFF	OFF	ON	ON
390 sec	ON	OFF	ON	ON
420 sec	OFF	ON	ON	ON
450 sec	ON	ON	ON	ON

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