

MACKENZIE

MacFi

Eight Message Digital Audio
Record/Play Systems

MacFi-e

Key Features:

- Local Record capability
- User-friendly controls
- Eight independent messages
- Flash memory, no battery backup required
- DML - Dynamic Message Length
- Instantaneous, random access of messages
- Line or microphone input
- Line or speaker output
- Shock and vibration resistant
- Several playback modes
- Playing relay
- 8 and 16 minute versions available

MacFi-e Adds:

- Serial (RS-232) control
- Synchronization relay
- Front mount LED indicators and manual controls



MacFi Shown

The MacFi adds convenient recording and random access capability to Mackenzie Laboratories, Inc's line of digital message repeaters. The MacFi is designed for any audio messaging application which requires several, locally recorded or frequently changed, messages to be accessible.

The MacFi offers 8 message locations selected via independent control inputs. Dynamic Message Length (DML) technology has been incorporated in the MacFi allowing each of the 8 messages to be of different duration. DML also provides for replacement messages to be a different length than the original, maximizing memory efficiency and compatibility with future applications. Local recording is accomplished through a straight forward user interface with standard line level and microphone connections. Line and amplified audio outputs are provided with level control.

The MacFi-e adds enhanced functionality to the standard MacFi. These features include Serial (RS-232) control of record and play, increased message capacity and synchronization relay. Push buttons and LED indicators of the MacFi-e are relocated to the front of the system for better accessibility in rack mount applications.

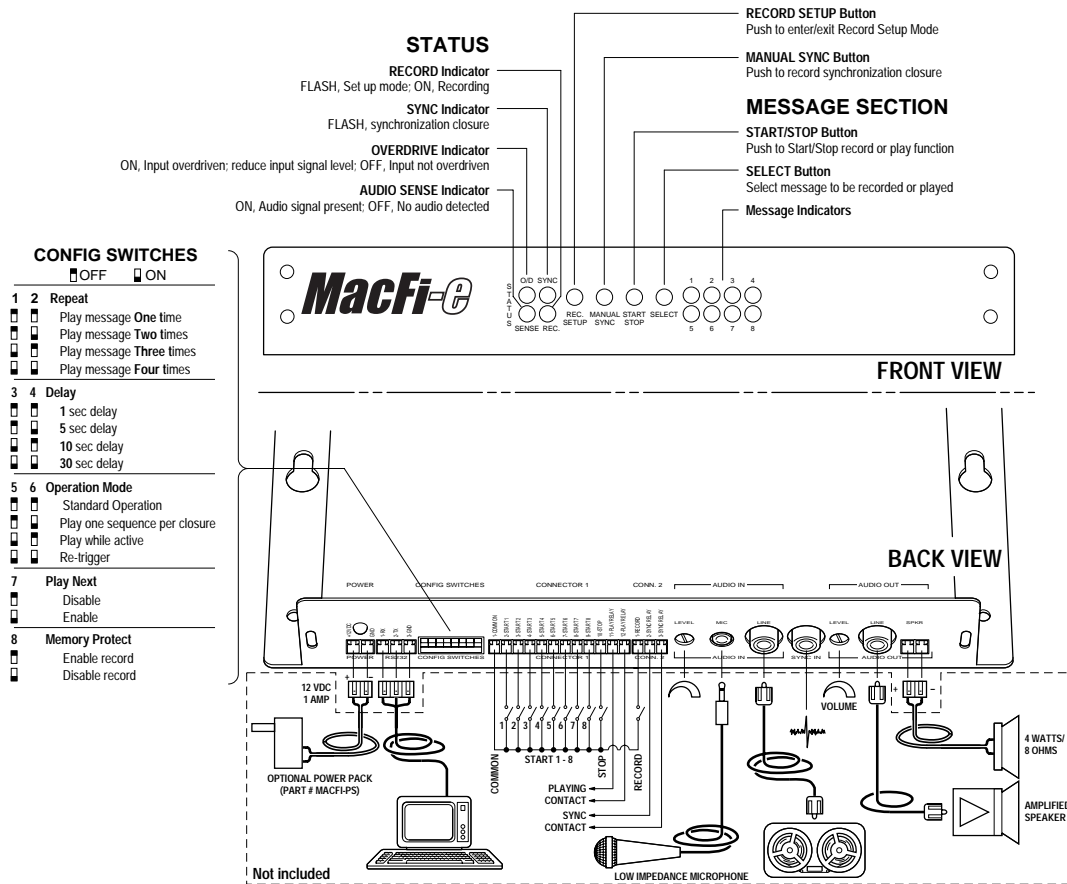
The MacFi is based on solid state, non-volatile, flash memory which stores messages until they are re-written. Message data is protected from power outages and no battery is required. The system contains no moving parts and offers unsurpassed reliability. MacFi is available in both 8 minute and 16 minute versions.

The MacFi offers a standard one year warranty and is proudly manufactured in the USA.

APPLICATIONS:

- Public Address
- Airport Announcements
- Convenience Stores
- Sound Effects
- Amusement Parks
- Exhibits
- Displays

Making A Difference, One At A Time



Specifications:

Audio Quality:

Performance: 12 bit
 Sample Rate: 16kHz
 Encoding: ADPCM
 Dynamic Range: 60dB
 Signal to Noise: 60dB
 Frequency Resp.: 100Hz to 6.5kHz
 THD: <1% at 1kHz

Audio Input:

Line: RCA, 10k ohm
 Mic: 1/8" mini jack, 1.5k ohm
 Level: +4dBm max., adjustable

Sync Input Interface (MacFi-e Version only):

RCA, 10K ohm for automated sync track loading

Audio Output:

Line: RCA, transformer isolated, 600 ohm
 Amplified: Terminal, 4 watts into 8 ohm
 Level: Adjustable, +4dBm max.

Audio Memory:

Type: FLASH EEPROM

Power:

Input Voltage: 12vdc
 Current: 1 amp
 Connection: Terminal

Serial Interface (MacFi-e version only):

Connection: Terminal
 Commands: Play, Record, Stop, etc.
 Type: RS232 I/O Connector
 Mode: 9600 baud, 8 data bits, 1 stop bit, no parity

Control I/O:

Control Inputs: Record, Stop, Individual message Start contact closure
 Status Outputs: Playing, Sync (MacFi-e version only)
 Output Type: Dry relay contact, 1A @24VDC non-inductive load
 Interface: Terminal

Mechanical:

Wall mount style, rack mount optional; 10" W x 8" L x 1.5" H; 18 gauge cold rolled steel chassis; Texture coated paint process

Regulatory Agency Approvals:

FCC, Part 15, Class A; UL/CSA approval on external power pack