M A C K E N Z I E

MacFi®-V4

PUBLIC ADDRESS / MASS NOTIFICATION / EMERGENCY COMMUNICATION SYSTEM

The MacFi-V4 provides your facility an integrated means of Mass Notification and Emergency Communications along with scheduled public service announcements, marketing messages and background music. The need for multiple devices to handle your critical messaging can be eliminated by using the MacFi-V4.

With two audio zones, the MacFi-V4 provides your corporate messaging to both customers and staff, and since its connected to activation switches

Front Panel view

and sensors, it is always ready to deliver critical audio announcements in the event of an emergency. Should an event occur where there is a duty to provide direction to your employees and customers, the MacFi-V4 will deliver the verbal instructions necessary to calmly, and safely, guide everyone out of harm's way.

The MacFi-V4 provides 6 dedicated start inputs (expandable using ICM-50s, sold separately) that when triggered, immediately mutes any scheduled announcements and background music (E-Version), and plays the required emergency message through both audio zones. The MacFi-V4E provides individual relays associated with message 1 – 6 which activates for the duration of the alarm to control appropriate downstream gear such as lighting or strobes.

More advanced functionality is available by using Mackenzie's Contact Maintenance and Control (CMAC) software over the Internet. When Emergency messages are activated, personnel can be notified via SMS/Text, E-mail, or Voice Calls. CMAC also provides remote system management, message authoring including multi-gender, multi-language Text to Speech, and time based scheduling of these message to the two audio zones provided. All SMS, E-mail, Voice Call messages are entered using CMAC and downloaded to the MacFi-V4E. Reports can be generated showing the time and date of each activation. For detailed information on CMAC software, please reference the CMAC Datasheet.

The CMAC software can be purchased direct from Mackenzie, or its services subscribed to through a third party.

The MacFi-V4 is proudly made in the USA and includes the following features:

- **500 message and >100 hours of audio capacity**
- **Local start inputs for Critical Announcements can be activated by closure, open collector, logic**
- **Playing relay for control of downstream gear**
- **Message 1 – 6 active relays on MacFi-V4E**
- **Line level audio inputs, adjustable**
- **Line and Speaker level outputs, adjustable**
- **Local Record capability**
- **USB port and SD Card for local file transfers**
- **RS232 Serial port for configuration and control**
- **Wall or shelf mount, optional rackmount**
- **Wide power supply range (9-32VDC)**
- **Standard 1 year warranty**

CMAC provides access to the following functions on the MacFi-V4E:

- **Two zones of scheduled messaging**
- **Text to Speech message entry**
- **Notification via SMS, e-mail, or Voice Call**
- **Critical Announcement activation reports**
- **Remote updating of audio files**
- **System clock management / syncing**
- **Diagnostics and firmware updates**
- **Instant control of system settings**
- **Audio level control / balancing**
- **Enhanced background music support**

Making A Difference, One At A Time

Back Panel view

SPECIFICATIONS

Audio Coding:
Recording: MPEG 1, Layer 3
Playback: MPEG 1, Layer 3, or 16 bit WAV

Audio Quality:
Dynamic Range: 85dB, Typical
Signal to Noise: 85dB, Typical
Frequency Resp.: 50Hz to 15kHz
THD: <0.5% at 1kHz, Typical

Audio Input:
Line: 2x 600Ω, transformer isolated
Level: +4dBm max., Back panel adjustable
Connection: 5 pin, 3.81mm pluggable terminal
Mic: Electret, panel mounted

Audio Output:
Line: 2x 600Ω, transformer isolated
Level: +4dBm max., Front panel adjustable
Connection: 5 pin, 3.81mm pluggable terminal.

Speaker: 2x 4Ω/8Ω drive support
Level: 10Wrms max, Front panel adjustable
Connection: 5 pin, 5mm pluggable terminal

Audio Memory:
Type: SD Card, 8 GB (typical)
Capacity: 500 messages, >100hrs of audio

Audio File Transfer:
Method: SD Card, USB memory key, CMAC

Real Time Clock:
Accuracy: +/- 30 seconds per month, typical
Update method CMAC Interface

Local Configuration:
Via Dip Switch: Adjustment to system default settings: # plays, delay between plays, start activation method, memory lock

Serial Interface:
Type: RS-232
Mode: 9,600 or 115,200 baud, 8 data bits, 1 stop bit, no parity, no flow control
Commands: Play, Record, Stop, File Download, Status
Connection: 3 pin, 3.81mm pluggable terminal

Ethernet Connection (MacFi-V4E):
Type: 10/100BaseT
Connector : RJ45
Connection: Mackenzie CMAC (Optional)
Uses: Manages messages, schedules, settings on the device. Provides capability for SMS, e-mail, and voice call notification

Power Requirement:
Input Voltage: 9-32VDC, 3Amp
Connection: 2 pin, 3.81mm pluggable terminal

Control I/O:
Control Inputs: 6 Message Start, 1 Stop
Status Outputs: Global Playing, Message 1-6 playing (E)
Output Type: Dry relay, 24VDC@1A non-inductive load
Connection: 12 pin, 3.81mm pluggable terminal (x2)

Expandability:
ICM-50: Provides 50 start inputs per module. Up to 10 modules provide 500 message capability

Mechanical:
Package: Wall / Shelf mount - 10"W x 5.5"D x 1.5"H
Material: 18 gauge cold rolled steel
Finish: Black Powder coated, Silk Screened
Rack mount: 1U adapter, 1/8" aluminum (optional)

Regulatory Agency Approvals:
FCC, Part 15, Class A
UL/CSA approval on external power pack (sold separately)

Specifications are subject to change without notice.