

# i.Net

## MUSIC PAGE INTERFACE (MPI)

MODEL G505



### FUNCTION

Lencore's Music Page Interface (MPI) replaces all the bulky headend equipment that is associated with music and paging systems. With the MPI there is no need for additional cable home runs, amplifiers, separate equalizers, special switching equipment or matching vendors for compatible product interfaces. The MPI's technology is so sophisticated that it can allow zone additions, modifications, deletions and other changes to the paging system on the fly, without rewiring. This eliminates the need for running multiple home runs back to the electrical closet or through building risers to create separate or additional zones. The MPI allows the ability to use up to 99 individual zones for paging using standard DTMF tones through a POTS telephone line. The system is also programmed for all-call and emergency broadcast paging. The system's easy to use full one octave band equalizer can be adjusted to either individual zones or all zones and provides exceptional fine tuning capabilities. When the MPI is connected to System Manager, programming can be set for up to 1.5 million square feet of space through a single device. The i.Net MPI incorporates Point Z™ technology allowing each individual speaker channel to carry up to 10 programmable zones. Paging has never been so versatile & clean. The creation, modification, addition and deletion of zones or groups for paging and masking can be easily controlled through System Manager. No proprietary software needs to be installed on the client's side, eliminating security and migration issues.

i.Net is an open platform system. In addition, volume and equalizer settings for paging and music can be programmed through the System Manager or i.Net Reports offering tremendous adjustment and control capabilities with unprecedented flexibility.

**Adaptive Equalization:** The unmatched capabilities and superior paging quality of Lencore's system automatically compensates and readjusts for frequency line loss while ensuring a quality signal that is continuously and uniformly broadcast and distributed throughout the entire system. Essentially this means that throughout the miles of audio wire, line loss will be virtually negligible. This results in a crystal clear page whenever you need it, wherever you are in your facility.

The MPI unit typically installs in the Telephone or IT closet. The MPI accepts a POTS line for all-call and zoned telephone paging. In addition, there are left and right audio inputs for music, all-call page, microphone input and testing input.

### AGENCY LISTINGS

+ UL 6500 or ANSI/UL 60065: Approved for use as audio/video equipment. US and Canada.

# PRODUCT SHEET & SPECIFICATIONS

## i.Net MUSIC PAGE INTERFACE (MPI)

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### PAGING VOLUME ADJUSTMENTS

- + Individual channels
- + Maximum output – 5.3 Volt RMS at speaker terminal
- + Attenuation range – 48 dB, in 1 dB steps, plus a mute setting

### PAGING ZONES

- + Individual channel, groups or global paging zones
- Point Z™ Technology (Each channel can carry 10 programmable zones)

### PAGE TEST SETTINGS

- + Service Button 1 sends test audio files over page lines.

### LED GUIDES FOR VOLTAGE INPUTS

On back of MPI unit there are two potentiometer to adjust audio and voltage inputs for both paging and music. The LED displays on the front of the unit provides visual confirmation that voltage are in range.

- + LED's 1 (Page) -
  - No Light: No input
  - Yellow light: Tel/Audio input too low
  - Blue Light: Good
  - Red Light: Hot
- + LED's 2 (Music) -
  - No Light: No input
  - Yellow light: Tel/Audio input too low
  - Blue Light: Good
  - Red Light: Hot

### E.B./MUSIC VOLUME ADJUSTMENTS

- Independent channels
- Maximum output – 5.3 Volt RMS at speaker terminal
- Attenuation range – 48 dB, in 1 dB steps, plus a mute setting

### EMERGENCY BROADCAST/MUSIC ZONES

- + Individual channel, groups or global music zones

### PAGING/E.B./MUSIC OCTAVE EQUALIZER

- + One page/music equalizer for all channels
- + 10 bands, 31 Hz to 16 kHz, each user adjustable by ±5 dB in 1 dB steps

### POWER SUPPLY

- + Input from building power – 100-240 VAC, 50-60 Hz, 1.0A
- Output to MPI device – 7.5 VDC, 4.0A, 30W max

### DIMENSIONS

- + 6" x 8 3/8" x 1 7/8"

### ELECTRICAL SPECIFICATIONS

- + Input voltage – 7.5 Volts DC
- + Input current – 333 milliamps DC
- + Power usage – 2.5 Watts
- + Power jack – Mates with 2.1 mm inner  
5.5 mm outer  
11 mm plug length
- + On/Off slide switch

### TELEPHONE PAGE USAGE

- + Lift telephone receiver
- + Dial access code – (\*) = Backspace
- + Wait for short dial tone
- + Dial two digit paging zone number and the # key or
- + Dial 00# for all call page
- + Wait for short beep
- + Issue page
- + Hang up – (\*) = Hang up after zone is dialed

### INPUTS

- + LonWorks® network. Connects to i.LON®100 Internet Server. Screw terminals.
- + Audio/Mic input - Microphone input allows stationary mic to be used for MPI input - Dry contact switch allows use to override telephone input
- + Dry Mic Contact Switch - Sends all call page to OP's when closed (overrides tel input). All call off when relay is open
- + Audio/Mic-Tel Switch - Switches between inpus (dry contact overrides swtich)

# PRODUCT SHEET & SPECIFICATIONS

## i.Net MUSIC PAGE INTERFACE (MPI)

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### PAGE

POTS line telephone input. RJ11 connector

1. 2 wire (tip and ring) analog appearance
2. Configured to be loop start
3. Battery voltage is 48 volts
4. Loop current is 23 milli amps
5. Must have DTMF signaling capability
6. Must have hang-up (winking) supervision

### STEREO/MUSIC

- + Left channel, 10k ohm input impedance, unbalanced, single ended RCA jack (phono connector)
- + Right channel, 10k ohm input impedance, unbalanced, single ended RCA jack.
- + Input impedance is 10K ohms
- + Gain from RCA jack to RJ45 pins 7 and 8 is 2 when internal potentiometer is set to maximum. (With 620 ohm terminator)

Note: Left and right channels are combined to form one music input. All music inputs using the RCA jacks are single ended inputs.



### RECOMMENDED SETTING OF INTERNAL POTENTIOMETER OF MUSIC INPUT

- + USA professional audio, +4 dBu, 1.228 Vrms  
10 o'clock position (approximate)
- + Consumer audio, -10 dBV, 0.316 Vrms  
3 o'clock position (approximate)
- + Tungsten T3 PDA,  
5 o'clock position (approximate)
- + Ipod,  
3 o'clock position (ipod volume set to 3/4)
- + 1 Vrms signal generator,  
10 o'clock position (approximate)
- + 0.7746 signal generator,  
11 o'clock position (approximate)

Ex: Set POT to min if input is 1 Vrms

Set POT to max if input is .25 Vrms

\*Do NOT exceed 1 Vrms input

### OUTPUTS

- + Cat5e data cable, RJ45 connector. Connects to OP's
- + Page output, pins 4 and 5 of RJ45 is a balanced output
- + Music output, pins 7 and 8 of RJ45 is a balanced output
- + Two ground (common) screw terminal block. Connects to (-), ground, of first OP

### INSTALLATION INSTRUCTIONS

A connection from the phone system to the MPI is required. This connection would come from either the phone system headend (PBX) or from a foreign exchange station (FXS) port. This connection will provide the MPI with the signal needed to tie the two systems together.

The MPI would then be assigned an extension. The extension assignment will allow a call to be placed to the MPI from any phone on the system and the page can be made.

Following are the requirements for the connection.

Here is the basic specification for a POTS line:

A Central Office (CO) POTS line is a 2-wire analog appearance.

- + It is a 2-wire (Tip and Ring) analog appearance.
- + It is configured to be a loop start.
- + Battery voltage is 48 Volts.
- + Loop current of 23 milli amps.
- + Must have DTMF signaling capability.
- + Must have hang-up (winking) supervision.

A Foreign Exchange Station (FXS) card or an Analog Telephone Adapter (ATA) card is required.

PLEASE NOTE: You cannot use a Foreign Exchange Office (FXO) card. Assign an extension to the port. Calling that extension will get you into the paging system