

PRODUCT SHEET & SPECIFICATIONS

i.Net

MUSIC PAGE INTERFACE (LOCAL/GLOBAL)

MODELS G505L/G505G



FUNCTION

Lencore's Local Music Page Interface (MPI) allows for priority paging and replaces all the bulky head end equipment that is typically associated with music and paging systems. When connected to Lencore's .Net System, programming can be set for up to 1.5 million square feet. The MPI allows the ability to use up to 99 individual zones for paging, using standard DTMF tones. The system is also programmed for all-call emergency broadcast paging.

Utilizing a client's existing telephone system (with open ports across multiple buildings), the Global MPI allows a user to send an all-call page to every connected building at once. This allows real time communication for company or campus wide announcements. However, in the case of a localized emergency the system's tiered paging provides for a top priority, emergency microphone page override per station

The unmatched capabilities of the Global/Local MPI combination allows for crystal clear broadcasts and emergency communications, regardless of whether the facilities are located across the street from each other, across the country or around the world. When used with Lencore's i.Net System, the user friendly web interface allows for secure 24/7 access to the system and the ability to view system settings, set timed events, and run system diagnostics from virtually anywhere

The creation, modification, addition and deletion of zones or groups for paging and masking can be easily controlled through the i.LON's web browser using the included Lencore 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.

PRODUCT SHEET & SPECIFICATIONS

i.Net MUSIC PAGE INTERFACE (LOCAL/GLOBAL)

MODELS G505L/G505G

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 - starts All Call page and set to on or off Used for sending continuous audio over inputs for testing
- + Service Button 2 - 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

PAGING/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

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 inputs (dry contact overrides switch)

PRODUCT SHEET & SPECIFICATIONS

i.Net MUSIC PAGE INTERFACE LOCAL/GLOBAL

MODEL G505L/G505G

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.

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

ADAPTIVE EQ OUTPUTS

Besides the normal Adaptive EQ procedure these output signals can be used as a signal generator. All measurements are made differentially with a ground strap from MPI board to test equipment. Short Cat5e were used, approximately 6-feet

- 31 Hz. – 0.440 Vrms (1.2445 Vp-p) unterminated
0.297 Vrms (0.8400 Vp-p) terminated into 620 ohms
- 63 Hz. – 0.495 Vrms (1.4001 Vp-p) unterminated
0.410 Vrms (1.1597 Vp-p) terminated into 620 ohms
- 125 Hz. – 0.514 Vrms (1.4538 Vp-p) unterminated
0.460 Vrms (1.3011 Vp-p) terminated into 620 ohms
- 250 Hz. – 0.518 Vrms (1.4651 Vp-p) unterminated
0.475 Vrms (1.3435 Vp-p) terminated into 620 ohms
- 500 Hz. – 0.516 Vrms (1.4595 Vp-p) unterminated
(500 Hz is best for field testing)
0.476 Vrms (1.3463 Vp-p) terminated into 620 ohms
- 1 kHz. – 0.500 Vrms (1.4142 Vp-p) unterminated
0.463 Vrms (1.3096 Vp-p) terminated into 620 ohms
- 2 kHz. – 0.450 Vrms (1.2728 Vp-p) unterminated
0.417 Vrms (1.1795 Vp-p) terminated into 620 ohms
- 4 kHz. – 0.348 Vrms (0.9843 Vp-p) unterminated
0.322 Vrms (0.9108 Vp-p) terminated into 620 ohms
- 8 kHz. – 0.241 Vrms (0.6817 Vp-p) unterminated
0.223 Vrms (0.6307 Vp-p) terminated into 620 ohms
- 16 kHz. – 0.186 Vrms (0.5261 Vp-p) unterminated
0.172 Vrms (0.4865 Vp-p) terminated into 620 ohms

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

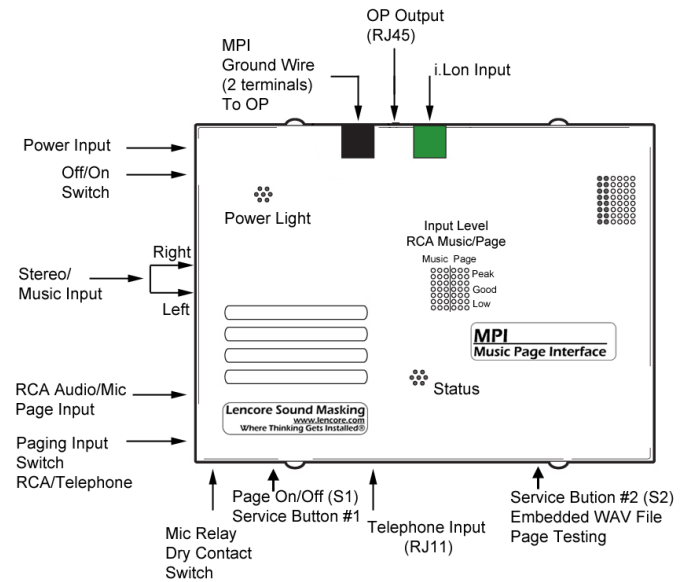
PRODUCT SHEET & SPECIFICATIONS

i.Net MUSIC PAGE INTERFACE LOCAL/GLOBAL

MODEL G505L/G505G

FEATURES AND BENEFITS

- + Local paging via telephone - up to 100 zones
- + Global input for multi-building, campus wide paging
- + Mic or canned announcement input to override for emergency notification
- + Service buttons #1 and #2 allows for full test for page continuity over entire system
- + Music input to easily play music over system or zone
- + AGC (Automatic Gain Control) implemented to ensure quality paging



- + Variable input control for music and RCA Audio/Mic Paging input with LED metering for proper input voltage
- + LED display on front displays input levels as low, hot or good
- + Variable input controls and metering capabilities ensures clean input and quality connections

