

MZP Series Paging & Program Distribution

Multi-zone Audio Paging and Program Distribution System



Feature Focus

Broadcast Quality Audio Distribution & Zoned Paging

Mic or Line Level Sources

Automatic Program Ducking and Ramping During Pages

Up to 128 Inputs by 128 Outputs

All-Inclusive Design, Installation, and Control Software

Intuitive Remote Controls

Ethernet Control

DTMF Phone System Interfacing

Ideal for retail, office, corporate, themed environments, restaurants, bars, museums, and other facilities requiring multi-zone audio paging and program distribution, such as background music.

The Intelix MZP Multi-zone Paging and Program Distribution System is dedicated to total audio management in multi-zone facilities. This means that MZP is the single-box solution for your facility's paging, mic/line mixing, and background music needs.

The MZP system combines a sophisticated, ethernet-enabled matrix mixer with durable remote controls and intuitive design, programming, and control software. Because the MZP matrix truly mixes levels at each crosspoint rather than just switching crosspoints on and off, the MZP automatically ducks program material during a page and then smoothly ramps the music back to its original level when the page is complete. **Design with Intelix and design with Intelligence.**

Factory Configuration

Factory configuration is a practical and affordable option which ensures your installation proceeds quickly and smoothly. The only prerequisite is a factory-approved MZP Designer Software file. Specifically, Intelix will:

- Confirm, critique, and optimize your MZP Designer Software file
- Program and load the Designer Software file onto the MZP matrix mixer
- Configure any Comet remotes according to your specific design criteria
- Test the entire package as a system to ensure proper operation
- Print wiring and product reports for a trouble-free installation
- Provide technical support on a priority basis for two years from the purchase of the system

Factory Configuration is required on all opening MZP system orders unless prior training has been completed.



Part Number	System Remote Total
Fact Config-A	1-16 Comets
Fact Config-B	17-32 Comets
Fact Config-C	33-64 Comets
Fact Config-D	65-128 Comets

MZP Designer Software

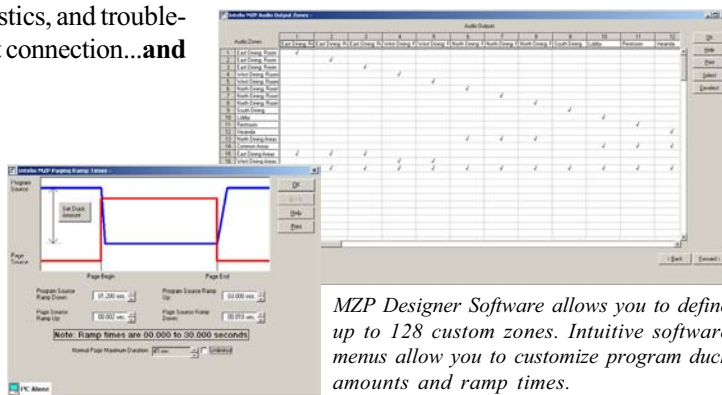


Intelix MZP Designer Software is a unique, all inclusive platform designed specifically for multi-zone paging and program distribution environments, providing solutions for the system designer, programmer, and installer.

Specifically, MZP Designer Software:

- Contains all the complex logic for configuring crosspoint levels, duck amounts, output zone groupings, user control assignments, pre-announce tone triggering, and DTMF phone interfacing
- Provides design and programming tools through an intuitive platform
- Includes assistive software wizards for quick, straight-forward design, programming, and installation
- Allows live control, monitoring, diagnostics, and troubleshooting from anywhere with an internet connection...and the software is 100% free.

MZP Designer Software allows you to design an entire paging system, configure pre-announce tones and DTMF phone interfacing, program all remote controls, compile wiring reports, and print a verified sales order in a matter of minutes. Comprehensive Intelix MZP Designer Software simplifies even the most complex audio routing tasks.



MZP Designer Software allows you to define up to 128 custom zones. Intuitive software menus allow you to customize program duck amounts and ramp times.

Advanced Communication: Connectivity, Control, and Security



The Dallas paging system...

From your Tampa office...



Relax. It's Intelix.

The Intelix MZP Multi-zone Paging and Program Distribution System is designed for maximum communication and control versatility, including advanced security safeguards which ensure only authorized users monitor and control the MZP system.

Connectivity. Every MZP system facilitates serial communication via RS232, TCP/IP LAN, and the internet. Front and rear panel RS232 communication ports allow quick onsite diagnostics, and an optional PCMCIA Logic Card allows up to eight contact closure inputs with eight output indicators.



Control. Free MZP Designer Software allows you to monitor, control, and troubleshoot the entire MZP system from any remote location with an internet connection.

Security. Each MZP matrix includes an authorized client list providing internal firewall protection from unauthorized users.

MZP Hardware



MZP8L8L-E

MZP Matrix Mixer (*part numbers vary*). The rack-mounted MZP matrix mixer is the heart of the MZP Paging and Program Distribution System, containing all of the complex logic for multi-zone page routing and program distribution. A true matrix mixer, the MZP matrix allows crosspoint level

control of any audio input as it is routed to any audio output. Sizes range from 8 inputs by 8 outputs to 128 inputs by 128 outputs.

Paging Station Microphone (*PSM-8; PSM-8-base*). The Intelix PSM Paging Station Microphone is a programmable remote paging station with eight customizable touch-button controls for selecting which zone(s) a page will be routed to. The PSM-8 is available with a gooseneck mic (PSM-8) or as only a base (PSM-8-base).



PSM-8-base



Comet Tail-D-
RJ12 (left) and
Comet 4-D-
RJ12 (right)

Individual Comet Remotes (*Comet Tail-D-RJ12, Comet Tail-P-RJ12, Comet 4-D-RJ12, Comet 4-P-RJ12*). Intelix offers individual Comet remotes for source selection and volume control, allowing you to customize the end-user's controls based on the application requirements. All Comets are single wall-gang box mountable, feature RJ12 connectors for wiring, and are available in either decora style (decora mount-ready) or panel style (custom panel mount-ready).

Colored Comet Buttons (*Colored Comet Buttons*). Customize any Intelix Comet remote control with colored buttons. When ordering, specify white, red, green, yellow, grey, or blue.

DTMF Phone Interfacing Module (*Comet-DTMF*). The Intelix Comet DTMF Module provides a diagnostic remote interface between PBX and standard analog phone systems, allowing touchtone phones to control and page into the MZP system.



Comet Bridge Adaptors

Comet Bridge Adaptors (*Comet-BA4 and Comet-BA11*). Intelix Comet-BA4 and Comet-BA11 bridge adaptors simplify Comet remote wiring by distributing either one RJ45 input to four RJ45 outputs (Comet-BA4) or one RJ45 input to eleven RJ45 outputs (Comet-BA11).

Factory-Installed Mic/Line Pre amplification Card (*Mic/Line Card*). The factory-installed Intelix mic/line card provides +15V phantom power and up to 60 dB of gain for eight MZP input channels (specify one mic/line card per every eight inputs which require preamplification).

Comet Test Kit

To aid in the physical installation of Intelix MZP and MARC systems, Intelix provides a *Comet Test Kit* with every matrix and Comet purchase free-of-charge.

When used correctly, the Comet Test Kit ensures the ReO bus cabling—the wiring connecting the Comet Remotes to the matrix—is correct.

Each kit consists of a short ReO bus patch cable, a 12 VAC power supply, a cable short/open tester, and a cable phase short tester.

PCMCIA Logic Input/Output Card (*Logic I/O Card*)

The Intelix Logic I/O Card provides the MZP matrix mixer with eight contact closure logic inputs and eight logic outputs. For additional contact closures, see the Intelix Comet 0.



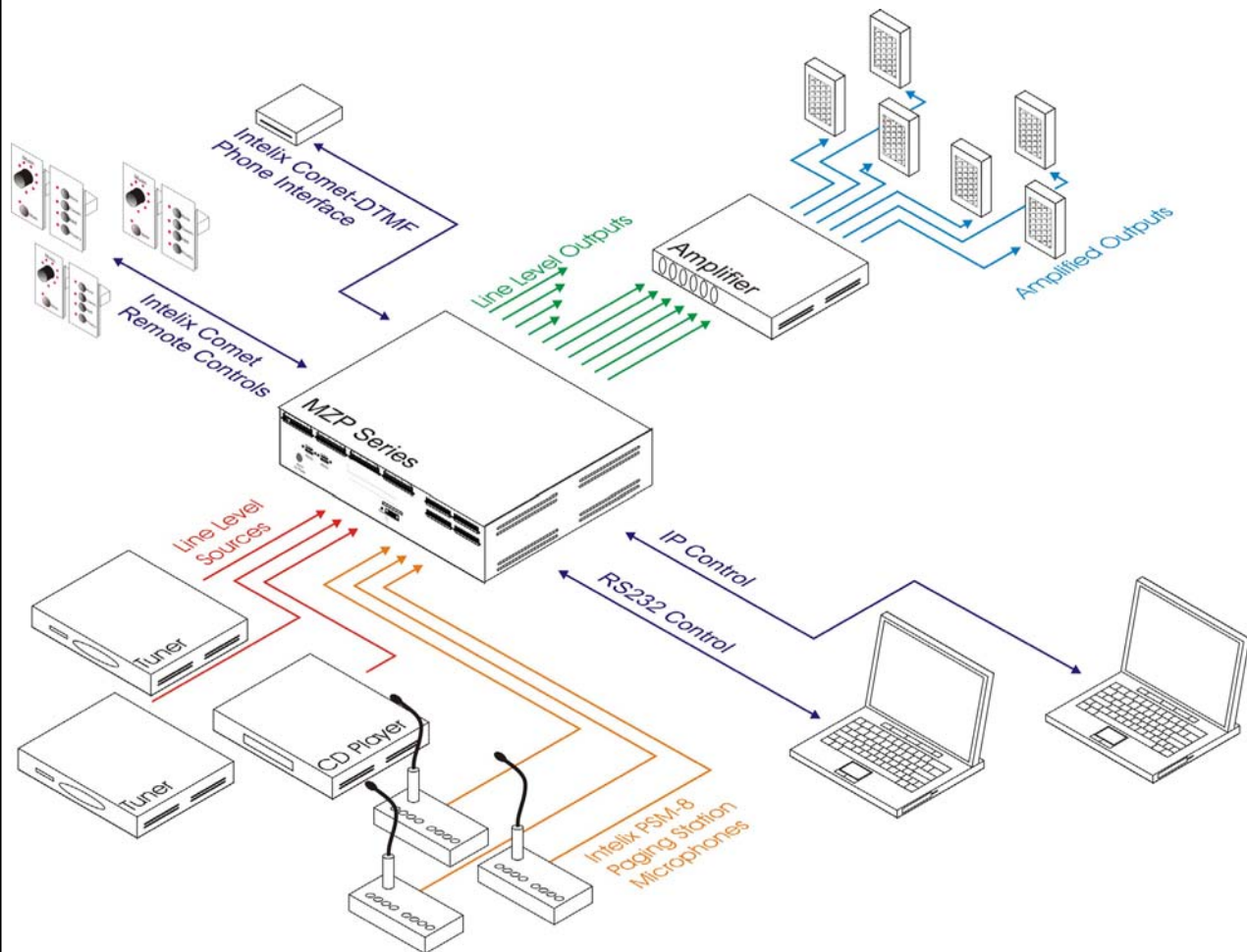
Logic I/O Card

MZP System Example

If we were to create a purchase order for the MZP system pictured below, it would most likely include the following Intelix components:

- One (1) *MZP8L&L-E* matrix mixer
- One (3) *PSM-8* paging station microphone
- Six (3) *Comet Tail* volume remote controls
- Four (3) *Comet 4* source selection remote controls
- One (1) *Mic/Line Card* preamplification card
- One (1) *Comet-DTMF* phone paging module
- One (1) *Comet PS* Comet power supply

The external amplifier, speakers, CD player, tuners, control PCs, and wiring must be purchased separately. A matrix power supply, MZP Designer Software, and Comet Remote Test Kit are provided free-of-charge from Intelix.



Additional system drawings are available in the App Notes section of the Intelix online Technical Library.

MZP Definable Comet Stations

Software-definable Intelix Comet remotes are typically integrated into paging environments in four different manners.



Paging Station. Page and select which zones will be paged into.

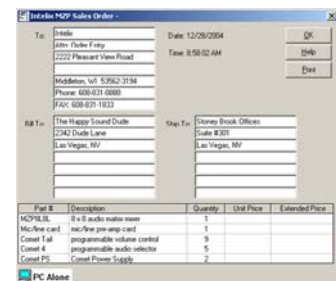
Page Volume Station. Set or mute page volume in a zone. Emergency level pages override muted page volume stations.

Program Select. Select different audio sources and control audio volume levels in a zone.

Program Distribution. Select zones to distribute an audio source into.

Creating an Intelix MZP System Purchase Order

The easiest way to prepare an MZP Multi-zone Paging and Program Distribution System purchase order is to let the MZP software prepare the document for you. Every time you design a system using Intelix Designer Software, a complete parts list and wiring report is automatically generated, ensuring nothing is overlooked.



1 Specify the MZP Matrix Mixer

- Determine the required amount of inputs and outputs. Keep in mind that stereo sources/destinations populate two inputs/outputs.
- Round the numbers up to the nearest derivative of eight and place them within Intelix's part numbering system.
- ◆ *Note: Each mixer purchase includes the required power supply.*

MZP16L32L-E

System Type # of Inputs # of Outputs

2 Specify Control

- Determine if analog or PBX phone system paging is required.
 - ▶ If required, specify a *Comet-DTMF*.
- Determine if desktop microphone paging is required.
 - ▶ If required, specify a PSM paging station microphone.
- Determine if remote control is required.
 - ▶ If required, specify Comet remotes or RS232 controllers.
 - ▶ If ordering Comet remotes, specify model and mounting type.

Comet Tail-P-RJ12

Control Type Mounting Type Connector Type

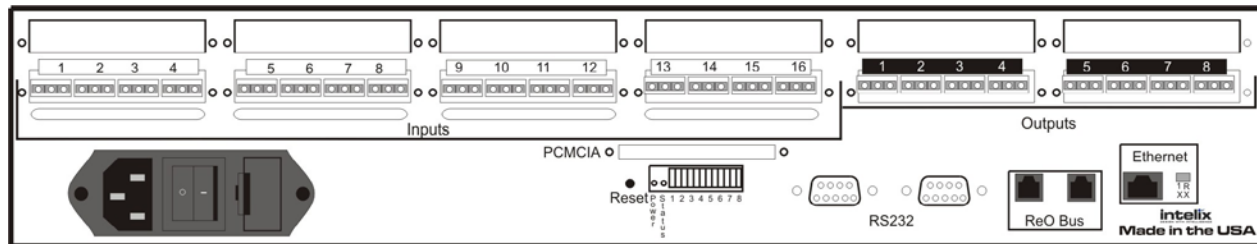
- ▶ Specify one Comet power supply (*Comet PS*) per 14 individual Comet remotes.
- ◆ *Note: Every Comet purchase includes an Intelix Comet Test Kit.*

- Determine if logic control is required.
 - ▶ If required, specify one PCMCIA *Logic I/O Card*.

3 Specify Enhancement Components

- Determine if audio preamplification or phantom power is required.
 - ▶ If required, specify one *Mic/line Card* for every eight channels.
- To simplify wiring, Intelix recommends *Comet-BA4* and *Comet-BA11* bridge adapters.

Regardless of how you assemble your purchase order, remember that each system sale is personally handled by an Intelix Application Engineer who ensures your system is complete and correct.



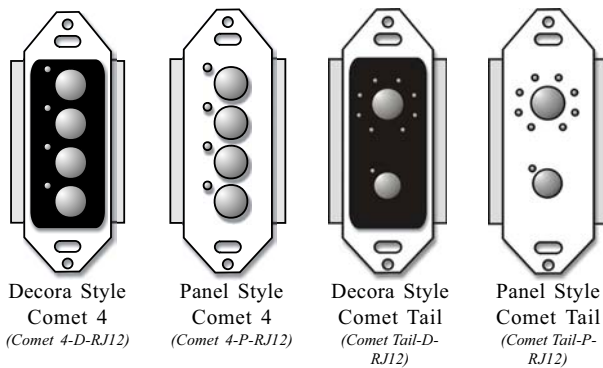
MZP16L8L-E Matrix Mixer Line Drawing

*Actual chassis size determinant on total number of inputs and outputs.

Comets and Custom Plates

Intelx Comet remotes are available in two different models: decora and panel-mount. Both models accommodate a single-gang wall box, and feature a phoenix block power connector and an RJ12 data connector. Decora style Comets feature an unlabeled, raised decora plate and arrive ready for immediate installation. Panel style Comets feature bare buttons, knobs, and LEDs, and are typically mounted onto a custom faceplate.

For an additional fee, Intelx provides custom labelled faceplates for all styles of Comet remotes, both as single units and as groups. Please contact Intelx for pricing and availability.



Decora Style
Comet 4
(Comet 4-D-RJ12)

Panel Style
Comet 4
(Comet 4-P-RJ12)

Decora Style
Comet Tail
(Comet Tail-D-RJ12)

Panel Style
Comet Tail
(Comet Tail-P-RJ12)

Comet and RCS Specifications

Power Requirements	9-18 V (AC or DC); one Comet power supply (Comet PS) per 14 remotes*
Current Draw	100 mA
Power Connector Type	3-pin phoenix, phase reverse tolerant
Recommended Power Cable	2 conductor stranded, 18 AWG
Data Communication	RS485 ReO bus
Data Connector	6-pin RJ12 modular jack
Recommended Data Cable	Cat 5
Max. Data Wire Length	12,000 feet (4,000 m)
Supplied Accessories	(2) 6/32" mounting screws (1) female 3-pin IDC power connector
Warranty	2 years

*Each Intelx RCS counts as three Comet remotes

MZP Specifications

GENERAL

Frequency Response	±.5 dB from 20 Hz to 20 kHz +0, -3 dB from 10 Hz to 30 kHz
VCA Control Range	100 dB (attenuation only)
Signal to Noise	Ref +26 dBu = 100 dB
Crosstalk	better than -80 dB

INPUTS

Input Impedance	(electronically balanced) 20kOhms (unbalanced) 10kOhms
Nominal Source Impedance	150 Ohms
Nominal Input Level	+4 dBu RMS
Max Input Level	+26 dBu RMS

Mic/Line 8 Input Card (optional)

Frequency Response	±.5 dB from 20 Hz to 20 kHz +0, -3 dB from 10 Hz to 30 kHz
Maximum Voltage Gain	60 dB
Signal to Noise	Ref +26 dBu @ 54 dB sys gain ±90 dB
Equivalent Input Noise	-129 dB @ 50 Ohms 20 Hz to 20 kHz
Crosstalk	better than -90 dB
Phantom Power	+15 VDC
Input Impedance	3.5 kOhms
Input Gain/Trim Range	60 dB

OUTPUTS

Output Impedance	(electronically balanced) 440 Ohms (unbalanced) 220 Ohms
Nominal Load Impedance	600 Ohms
Nominal Level	+4 dBu RMS
Maximum Level	(balanced) +26 dBu RMS (unbalanced) +20 dBu RMS
Power Requirements (stock models)	18 VAC Center-Tapped, 4.5 A, 85 VA, ±19 VDC, 4.5 A
Dimensions (stock 2RU models)	19" x 14" x 3.5" (48.2 cm x 8.9 cm x 35.6 cm)
Shipping Weight (average)	24 lb (10.9 kg)



Warranty Statement

INTELIX WARRANTY STATEMENT

Intelix warrants to the original purchaser of new and B-stock products that the product will be free from defects in material and workmanship for a period of 2 years from the date of purchase from an authorized Intelix reseller, subject to the terms and conditions set forth below.

All Intelix products are guaranteed against malfunction due to defects in materials or workmanship for two years after date of purchase. If a malfunction does occur during the specified period, the defective product will be repaired or replaced at Intelix's option without charge. As a condition to receiving the benefits of this warranty, you must provide Intelix with documentation that establishes you were the original purchaser of the Intelix products. If you are not the original purchaser, the Intelix equipment must be returned to the original purchaser or another authorized Intelix reseller accompanied by dated documentation of proof of purchase. Please contact Intelix for a list of authorized resellers.

This warranty does not cover: 1) Malfunction resulting from use of the product other than as specified in the user manual; 2) Installation specific wiring; 3) Malfunction resulting from abuse or misuse of the product; 4) Exterior chassis appearance; 5) Malfunction occurring after repairs have been made by anyone other than Intelix or any of its authorized service representatives; 6) Acts of nature; 7) Optional software upgrades or updates.

This warranty will be void if the product's serial number or quality control sticker has been removed or defaced, or if the product has been altered, subjected to damage or abuse, repaired by any person not authorized by Intelix to make repairs, or installed in any manner that does not comply with Intelix's recommendations.

This warranty is in lieu of all other warranties, express or implied. Intelix disclaims all other warranties, express or implied, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose.

No agent or reseller of Intelix is authorized to modify this warranty or to make additional warranties on behalf of Intelix. Statements, representations or warranties made by any party other than Intelix does not constitute warranties by Intelix. Intelix shall not be responsible or liable for any statement, representation or warranty made by any other person or party.

Return and Shipping Statement

INTELIX RETURN STATEMENT

Warranty service is only offered after a return authorization (RA) number has been generated by an authorized Intelix factory representative. If you purchased the Intelix goods directly from Intelix, please contact Intelix Applications for an RA number. If you purchased the Intelix good from an authorized Intelix reseller, please contact your authorized reseller for an RA number. This RA number must be clearly referenced on the outside of all packages shipped to Intelix. Intelix Applications must be contacted prior to any return of goods; all return shipments received by Intelix without an RA number will be refused. All shipments must be received within 30 days from the RA number issue date.

At Intelix's option, Intelix will advance replace failing Intelix goods on approved accounts within 90 days of shipment from Intelix. The advanced replaced goods will be invoiced and payment will be due under standard terms if the failing goods are not received within 14 days of the advanced replacement shipment.

Intelix will match shipping method for units still under warranty. If a unit which is out of warranty needs repair, the dealer must pay for shipping, replacement parts, and a fixed \$100/hr* labor fee. Normal Intelix credit terms apply to billable repairs. If a unit is returned and found to work according to factory specifications, a \$100 service fee* is billed regardless of warranty status. All repairs are made in a reasonably quoted amount of time; a rush shipment fee of \$50* may apply to repairs needing a quicker than usual turn-around time.

All goods outside of the standard warranty period which are repaired by Intelix are covered by an additional 90 day warranty. This 90 day warranty only covers the specific repaired components. All other standard warranty limitations apply.

**Or current applicable rate/fee.*

Warranty terms and conditions subject to change and do not apply outside of United States and Canada.

Intelix Warranty is subject to change. Please contact the factory for the most up-to-date information.

INTELIX SHIPPING STATEMENT

By default, Intelix ships all United States and Canadian orders via UPS on Intelix's account. A \$5 handling charge will be applied to orders shipped via non-UPS carriers. Please contact the factory for all shipping estimates. By default, Intelix ships all international orders via UPS on Intelix's account. A \$25 handling charge will be applied to international orders shipped via non-UPS carriers. A \$10 handling charge will be applied to international orders shipped via UPS on an account other than Intelix's. Please contact the factory for all shipping estimates.

A rush shipment fee of \$50.00 applies to customer shipments requiring delivery faster than standard quoted delivery schedule.

Intelix Shipping Statement is subject to change. Please contact the factory for the most up-to-date information.

www.intelix.com

intelix
DESIGN WITH INTELLIGENCE

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