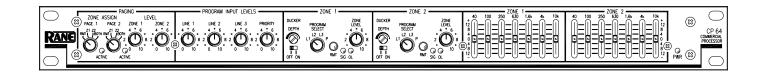
#### COMMERCIAL PROCESSOR



# **General Description**

The CP 64 is a versatile commercial preamplifier designed for use in restaurants, bars, health clubs and offices. The CP 64 is capable of serving two independent Zones. Two gated Paging inputs and four Program inputs are provided. Ports are provided for expansion of Page, Program or Zone signals. Four levels of priority are supported:

- Priority Page
- Non-Priority Page
- Priority Program
- Non-Priority Program

The versatility of the CP 64 allows a wide variety of system configurations while providing simple and intuitive controls.

Two gated Paging Inputs capable of receiving mic or line level input are provided. Each features independent Mic/Line Pad, Gain Trim, detector Threshold, Zone Assign and Zone Level controls. Internally selectable phantom power is provided for each input. Each Paging input may be summed Pre- or Post- Zone Level control to allow setting Paging Level independent of Zone Level. An internal Paging Priority switch allows a "master" pager to override non-priority paging in its assigned zones, while allowing true dual zone independent paging. If no Paging Priority is selected, the Paging inputs mix together for applications like karaoke.

Four stereo Program inputs are provided with independent Input Level controls. Any one of the four Program inputs may be independently assigned in each Zone. One of the Program inputs is a gated Priority Program input. When signal is detected at its input, it overrides any non-priority Program selection in the assigned Zones. The Priority detector features internal, adjustable Threshold and Release-Time controls.

The CP 64 has two Zone outputs: Zone 1 is stereo: Zone 2 is mono. Each Zone features independent

- Level
- Program Select
- · Ducker On/Off
- · Ducker Depth
- Servo-Locked-Limiter<sup>TM</sup>
- 7 Band EQ (±12 dB)

Versatile wired remote control interface ports are provided for Paging assignment, Zone Level and Zone Program source selection. Paging Zone and Source/Volume remote controls are available as accessories.

An optional security cover is available for the CP 64's front panel. Front Panel Ducker Depth controls are screw driver adjust. *All other front panel knobs can be removed and replaced with hole plugs*. The remote controls allow blank Decora<sup>TM</sup> switch covers to act as remote control security covers. The remote knobs can also be replaced with the included hole plugs.

#### **Features**

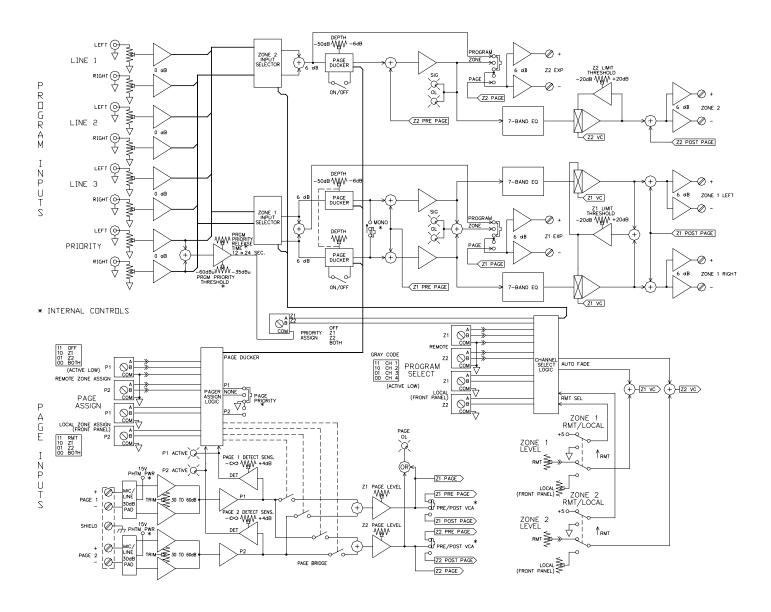
- New! Faster Page Mic Detection (.5 ms)
- Two fully independent gated Mic/Line Paging Inputs
- Paging Priority Assign
- Page Ducking
- Three Stereo Program Inputs
- One gated Stereo Priority Program Input

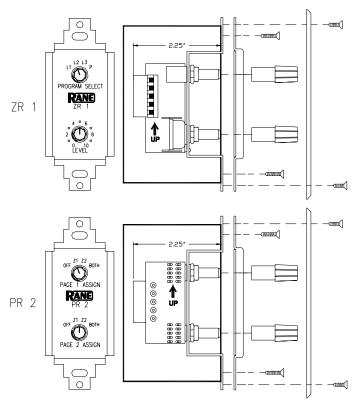
- Page/Program/Zone Expansion
- 7-Band Graphic EQ for Each Zone
- Servo-Locked-Limiter<sup>™</sup> for Each Zone
- PR 2 Remote Page Assign Controller Available
- ZR 1 Remote Zone Level/Program Select Controller Available
- UL/CSA/CE and 100/120/230 VAC Remote Power Supplies

Parameter	Specification	Limit	Units	Conditions/Comments
MIC/LINE PAGING INPUTS				All controls duplicated for both inputs
Number of inputs	Two			Input connector: Euroblock
Input Type	Balanced			Instrumentation Amplifier
RFI Filter	Yes			
Gain range	+30 to +60	2	dB	Continuously adjustable
Frequency Response	30 Hz to 40 kHz	+0/-3	dB	Maximum gain
Input Referred Noise	-125	1	dBu	Gain: 60 dB, Rs: 150 ohms, BW: 20 kHz
CMR	40	min	dB	20 to 20 kHz
THD+N	.05	.01	%	Gain: 30 dB, +4 dBu out, 1 kHz, BW: 80 kHz
Phantom Power	+15	4%	VDC	Internal switch
Mic Input impedance	500	1%	ohms	Each leg to GND
Line Pad	30	1	dB	
Line Input impedance	14.5k	1%	ohms	Each leg to GND. Defeats phantom power
Signal Detector Range	off to +4	typ	dBu	Continuously adjustable
Signal Detector Attack	.5	typ	msec	Fixed
Signal Detector Release	3	typ	sec	Fixed
Overload Indicator	+16	1	dBu	4 dB before clipping
Front Panel Zone Assign	Remote, Z1, Z2, Both			Z1 = Zone 1; Z2 = Zone 2
Remote Zone Assign	Off, Z1, Z2, Both			Internal pull-up; Active low; Switch closure to GND or 5 volt TTL logic.
Pre/Post Paging assign	Summed with program Pre VCA or Post VCA			Internal switch
Page Priority Assign	P1 (Page 1) NO (none) P2 (Page 2)	1	dBu	Priority pager overrides non-priority pager only in assigned zones; Selecting NONE allows the two pagers to mix.
Paging Zone Level Adjust	off to 0		dB	Independent for each Zone
Page Remote Selector	11 = Off 10 = Z1 (Zone 1) 01 = Z2 (Zone 2)	1	dBu	Internal pull-up. Active low; Switch closure to GND or 5 volt TTL logic
	00 = Both			
PROGRAM INPUTS				All controls duplicated for all four inputs
Number of inputs	Four			Stereo
Input Type	Unbalanced			RCA input connector
Input Level adjust	off to 0		dB	
Frequency Response	10 Hz to 50 kHz	+0/-3	dB	
Input impedance	10 k	20%	ohms	
Priority Program Input				
Input Detector Range	off to -35	typ	dBu	Internal trim, factory set to -50 dBu
Release Time Range	5 to 20	typ	sec	Internal trim, factory set to 12 seconds
Attack Time	50	typ	msec	For a 20 dB step; Fixed
Assign	OFF, Z1, Z2 or Both			
EXPAND OUTPUTS				All controls duplicated for both zones
Number of Expand Outputs	Two			Z1 & Z2, both mono
Expand Selector	Zone Program only Page only			Note: If a Page signal is summed Post-VCA, it is not present on the Expand Zone output. It is available for the Expand Page output.
Output Type	Balanced			Cross-coupled; Euroblock connector
Gain: Zone	12	1	dB	
Page/Program	6	1	dB	
Frequency Response	10 Hz to 50 kHz	+0/-3	dB	
S/N	-84	1	dBr	re +4 dBu. BW: 20 Hz-20 kHz
THD+N	.05	.01	%	+4 dBu, 1 kHz, BW: 80 kHz
Crosstalk	-75	max	dB	1 kHz, RS: 25W, ch/ch
Output impedance	100	1%	ohms	Each leg
Maximum Output	+24 dBu	typ		Ri: 2 k ohms

ZONE OUTPUTS	Parameter	Specification	Limit	Units	Conditions/Comments
	ZONE OUTPUTS				
Gain: From Program Inputs	Number of outputs	Two			Zone 1 Stereo, Zone 2 mono
	Output Type	Balanced			Euroblock connectors; Cross-coupled
Frequency Response	Gain: From Program Inputs	12	1	dB	
S/N	From Page Inputs	6	1	dB	
THD+N	Frequency Response	10 Hz to 50 kHz	+0/-3	dB	
	S/N	-84	1	dBr	re +4 dBu. BW: 20 Hz-20 kHz
Output impedance	THD+N	.05	.01	%	+4 dBu, 1 kHz, BW: 80 kHz
	Crosstalk	-75	max	dB	1 kHz, RS: 25 ohms, (L/R or ch/ch)
	Output impedance	100	1%	ohms	Each Leg
	Maximum Output	+20	typ	dBu	R1 = 600 ohms
Ducker: EnableDepth RangeDepth RangeLimiter: Threshold RangeLimiter: Threshold RangeAttack TimeRelease TimeRelease TimeRatioRatioRatioRatioRatioRatio	Signal Present Indicator	-20	typ	dBu	Maximum
	Overload Indicator	+16	typ	dBu	4 dB before clipping
Limiter: Threshold RangeAttack TimeRelease Time	Ducker: Enable	ON/OFF			Independently defeatable for each Zone
Attack Time 20 typ msec msec For a 10 dB step; Fixed Soft knee PROGRAM SELECTION Zone RMT Selector 11 = L1	Depth Range	-50 to -6	typ	dB	Continuously adjustable
Release TimeRatio PROGRAM SELECTIONLocal (Front Panel)Zone RMT Selector  L1, L2, L3 or P (priority) 11 = L1 10 = L2 00 = L3 01 = P Zone RMT Volume (RMT engaged) Range 0 V to +5 V (0 dB to -78 dB)Off Isolation EQ CIRCUITS Boost/Cut RangeISO Center FrequenciesISO Center Frequencies 40, 100, 250, 630, 1.6k 4k, 10kFilter Bandwidth 2  Unit: Agency Listing120 VAC model  CE-EMC CE-Safety Exempt  Power Supply: Agency Listing  Tight and the state of typ  Typ  Typ  Typ  Typ  Typ  Typ  Typ	Limiter: Threshold Range	-20 to +20	typ	dB	Continuously adjustable
Ratio  PROGRAM SELECTION Local (Front Panel) Zone RMT Selector  11 = L1 10 = L2 00 = L3 01 = P Zone RMT Volume (RMT engaged) Off Isolation  EQ CIRCUITS Boost/Cut Range ISO Center Frequencies  40, 100, 250, 630, 1.6k 4k, 10k Filter Bandwidth  2  Class 2 Equipment UL CSA 230 VAC model  CE-EMC CE-Safety Exempt  L1, L2, L3 or P (priority)  L1, L2, L3 or P (priority)  Independent for each Zone Internal pull-up. Active low. Switch closure to GND or 5 volt TTL. Gray Code logic.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  dB 1 kHz, Rs: 25 ohms  EQ CIRCUITS  3% Hz Zone 1: Stereo 7-band Zone 2: Mono 7-band  National Electrical Code Exempt Class 2 equipment Exempt		20	typ	msec	For a 10 dB step; Fixed
Ratio  PROGRAM SELECTION Local (Front Panel) Zone RMT Selector  11 = L1 10 = L2 00 = L3 01 = P Zone RMT Volume (RMT engaged) Off Isolation  EQ CIRCUITS Boost/Cut Range ISO Center Frequencies  40, 100, 250, 630, 1.6k 4k, 10k Filter Bandwidth  2  Class 2 Equipment UL CSA 230 VAC model  CE-EMC CE-Safety Exempt  L1, L2, L3 or P (priority)  L1, L2, L3 or P (priority)  Independent for each Zone Internal pull-up. Active low. Switch closure to GND or 5 volt TTL. Gray Code logic.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Independent for each Zone Internal pull-up. Active low. Switch closure to GND or 5 volt TTL. Gray Code logic.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  dB  1 kHz, Rs: 25 ohms  4B  1 kHz, Rs: 25 ohms  2 oct  AB  2 oct  National Electrical Code Exempt Class 2 equipment	Release Time	250	typ	msec	For a 10 dB step; Fixed
PROGRAM SELECTION Local (Front Panel) Zone RMT Selector  11 = L1 10 = L2 00 = L3 01 = P Zone RMT volume (RMT engaged) Off Isolation  EQ CIRCUITS Boost/Cut Range Boost/Cut Range  40, 100, 250, 630, 1.6k 4k, 10k Filter Bandwidth  2  Unit: Agency Listing 120 VAC model  CE-SA  CE-SA  Power Supply: Agency Listing  L1, L2, L3 or P (priority)  Independent for each Zone Internal pull-up. Active low. Switch closure to GND or 5 volt TTL. Gray Code logic.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Hyp  dB  1 kHz, Rs: 25 ohms  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Ada  Linternal pull-up. Active low. Switch closure to GND or 5 volt TTL. Gray Code logic.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Ada  Linternal pull-up. Active low. Switch closure to GND or 5 volt TTL. Gray Code logic.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Ada  Linternal pull-up. Active low. Switch closure to GND or 5 volt TTL. Gray Code logic.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Ada  Linternal pull-up. Active low. Switch closure to GND or 5 volt TTL. Gray Code logic.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Ada  Linternal pull-up. Active low. Switch closure to GND or 5 volt TTL. Gray Code logic.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Ada  Linternal pull-up. Active low. Switch l	Ratio	15:1			Soft knee
Zone RMT Selector  11 = L1 10 = L2 00 = L3 01 = P Zone RMT Volume (RMT engaged)  Range 0 V to +5 V (0 dB to -78 dB) So Center Frequencies  40, 100, 250, 630, 1.6k 4k, 10k 2  Unit: Agency Listing 120 VAC model  CE-EMC CE-Safety Exempt  Internal pull-up. Active low. Switch closure to GND or 5 volt TTL. Gray Code logic.  GND or 5 volt TTL. Gray Code logic.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Litter Agency Listing  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.	PROGRAM SELECTION				
Zone RMT Selector  11 = L1 10 = L2 00 = L3 01 = P Zone RMT Volume (RMT engaged)  Range 0 V to +5 V (0 dB to -78 dB) So Center Frequencies  40, 100, 250, 630, 1.6k 4k, 10k 2  Unit: Agency Listing 120 VAC model  CE-EMC CE-Safety Exempt  Internal pull-up. Active low. Switch closure to GND or 5 volt TTL. Gray Code logic.  GND or 5 volt TTL. Gray Code logic.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Litter Agency Listing  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.	Local (Front Panel)	L1, L2, L3 or P (priority)			Independent for each Zone
10 = L2   00 = L3   01 = P	` '	l			-
O1 = P   Attenuation = 64 mV/dB   Range 0 V to +5 V (0 dB to -78 dB)   Typ   dB   1 kHz, Rs: 25 ohms		10 = L2			
Zone RMT Volume (RMT engaged)  Attenuation = 64 mV/dB Range 0 V to +5 V (0 dB to -78 dB) Off Isolation  EQ CIRCUITSBoost/Cut RangeISO Center Frequencies 40, 100, 250, 630, 1.6k 4k, 10k 2  Unit: Agency ListingFilter Bandwidth UL CSA230 VAC model  Control element: 2k ohm pot, reverse-log taper; Or any GND referenced 0-5 VDC control.  dB 1 kHz, Rs: 25 ohms  Zone 1: Stereo 7-band Zone 2: Mono 7-band  National Electrical Code Exempt Class 2 equipment Exempt					
(RMT engaged) Range 0 V to +5 V (0 dB to -78 dB)  -80  typ dB 1 kHz, Rs: 25 ohms  EQ CIRCUITS Boost/Cut Range +12 to -12 40, 100, 250, 630, 1.6k 4k, 10k 2  Unit: Agency Listing120 VAC model  Class 2 Equipment UL CSA230 VAC model  CE-EMC CE-Safety Exempt  Or any GND referenced 0-5 VDC control.	7 200	*			
Composition   Composition					
Off Isolation  EQ CIRCUITSBoost/Cut RangeISO Center Frequencies 40, 100, 250, 630, 1.6k 4k, 10k 2Filter Bandwidth 2 Class 2 Equipment UL CSA120 VAC model CE-EMC CE-Safety Exempt  Power Supply: Agency Listing  1 kHz, Rs: 25 ohms	(KWH engaged)				of any GND referenced 0-3 VDC control.
EQ CIRCUITSBoost/Cut Range +12 to -12 .5 dBISO Center Frequencies 40, 100, 250, 630, 1.6k 4k, 10kFilter Bandwidth 2 3% oct Unit: Agency Listing120 VAC model CSA230 VAC model CE-EMC CE-Safety Exempt  Power Supply: Agency Listing	Off Isolation	l `	typ	dB	1 kHz, Rs: 25 ohms
Boost/Cut Range	EO CIRCUITS		'		,
ISO Center Frequencies 40, 100, 250, 630, 1.6k 4k, 10k 2 3% Oct Unit: Agency Listing120 VAC model UL CSA230 VAC model CE-EMC CE-Safety Exempt  40, 100, 250, 630, 1.6k 4k, 10k 2 3% Oct National Electrical Code Exempt Class 2 equipment EMC directive 89/336/EEC Per Article 1 of LVD 73/23/EEC		+12 to -12	.5	dB	
4k, 10k Filter Bandwidth  2  3%  oct  Unit: Agency Listing 120 VAC model  Class 2 Equipment  UL  CSA 230 VAC model  CE-EMC  CE-Safety Exempt  Power Supply: Agency Listing  Ak, 10k  2  3%  oct  National Electrical Code  Exempt Class 2 equipment  Exempt Class 2 equipment  EMC directive 89/336/EEC  Per Article 1 of LVD 73/23/EEC	_	40, 100, 250, 630, 1.6k	3%	Hz	Zone 1: Stereo 7-band
Unit: Agency Listing120 VAC model Class 2 Equipment UL CSA Exempt Class 2 equipment EMC directive 89/336/EEC Power Supply: Agency Listing Per Article 1 of LVD 73/23/EEC	•				Zone 2: Mono 7-band
120 VAC model Class 2 Equipment UL CSA Exempt Class 2 equipment EMC directive 89/336/EEC Per Article 1 of LVD 73/23/EEC  Power Supply: Agency Listing	Filter Bandwidth	2	3%	oct	
UL Exempt Class 2 equipment CSA Exempt Class 2 equipment EXEMPT Class 2 equipment EMC directive 89/336/EEC EXEMPT Class 2 equipment EMC directive 89/336/EEC Per Article 1 of LVD 73/23/EEC	Unit: Agency Listing				
CSA Exempt Class 2 equipment  CE-EMC EMC directive 89/336/EEC  Power Supply: Agency Listing  CE-Safety Exempt Per Article 1 of LVD 73/23/EEC	120 VAC model	Class 2 Equipment			National Electrical Code
230 VAC model CE-EMC CE-Safety Exempt  Power Supply: Agency Listing  CE-EMC CE-Safety Exempt  EMC directive 89/336/EEC Per Article 1 of LVD 73/23/EEC		UL			Exempt Class 2 equipment
Per Article 1 of LVD 73/23/EEC  Power Supply: Agency Listing  CE-Safety Exempt  Per Article 1 of LVD 73/23/EEC		CSA			Exempt Class 2 equipment
Power Supply: Agency Listing	230 VAC model	CE-EMC			EMC directive 89/336/EEC
		CE-Safety Exempt			Per Article 1 of LVD 73/23/EEC
	Power Supply: Agency Listing				
	120 VAC model	UL			File No. E88261
CSA File No. LR58948		CSA			File No. LR58948
230 VAC model CE-EMC EMC directive 89/336/EEC	230 VAC model	CE-EMC			EMC directive 89/336/EEC
CE-Safety LVD directive 73/23/EEC		CE-Safety			LVD directive 73/23/EEC
Power Supply Requirements 18 VAC w/ center tap .1 Vrms RS 1 (see data sheet)	Power Supply Requirements	18 VAC w/ center tap	.1	Vrms	RS 1 (see data sheet)
Maximum Current 750 mA RMS current from Remote Supply	Maximum Current	750		mA	RMS current from Remote Supply
Unit: Construction All Steel	Unit: Construction	All Steel			
Size 1.75""H x 19""W x 8.5""D 1U (4.4 cm x 48.3 cm x 21.6 cm)	Size	1.75""H x 19""W x 8.5""D			1U (4.4 cm x 48.3 cm x 21.6 cm)
	Weight	5 lb (w/o power supply)			(2.3 kg)
Shipping: Size 4.5"" x 20.3"" x 13.75"" (11.5 cm x 52 cm x 35 cm)		4.5"" x 20.3"" x 13.75""			(11.5 cm x 52 cm x 35 cm)
		9 lb			(4.1 kg)
Note: $0 dBu = 0.775 Vrms$	Note: $0 dBu = 0.775 Vrms$				

# **CP 64 Block Diagram**





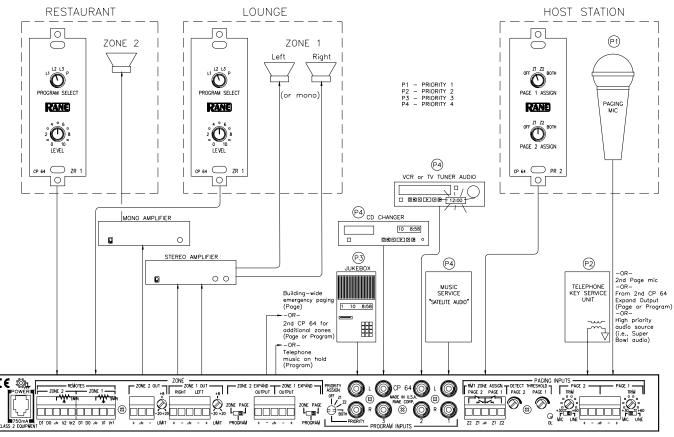
# **Remote Controlling the CP 64**

Two optional wired remote control units are available. The PR 2 allows remote control of Page 1 and Page 2 Zone Assign selection. The ZR 1 allows remote control of Zone Level and Zone Program selection. One PR 2 and two ZR 1 remotes may be used with each CP 64. The PR 2 and ZR 1 may be installed in standard electrical boxes (minimum depth 2.25"). The remotes connect to the CP 64 through 5-pin Euroblock connectors.

The PR 2 is a 5-wire remote with 2 bits to select Page 1 Assign, one wire for shield/gnd and 2 bits for Page 2 Assign. Selector logic is active low BCD with pull-up provided in the CP 64. Control may be a simple switch closure to GND or 5 volt TTL. Page 1 and Page 2 bits may be paralleled so that one switch controls both Page Assigns. Remote control is initiated by setting the front panel Paging Zone Assign selector to RMT.

The ZR 1 is a 5-wire remote with 2 bits for Zone Program selection (active low Gray Code), a common shield/gnd and two wires for ratiometric DC control of Zone Level. Zone 1 and Zone 2 ZR 1 remote ports may be paralleled so that a single remote controls both Zones. Selector logic is active low Gray Code with pull-up provided in the CP 64. Control may be a simple switch closure to GND or 5 volt TTL. Remote control for each zone is initiated by engaging the RMT switch (located on the front panel) for that Zone.

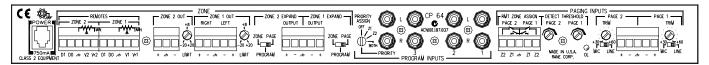
# Example System - Restaurant / Lounge



#### COMMERCIAL PROCESSOR



#### Rear Panel



# **Architectural Specifications**

The Processor shall provide two fully independent gated Paging inputs, three line-level Non-Priority Program inputs and one gated line-level Priority Program input. Two Zones shall be served. Zone 1 shall be a stereo zone with balanced, cross-coupled outputs. Zone 2 shall be a mono zone with a balanced cross-coupled output. Mono expansion ports for Page, Program or Zone signals shall be provided for each zone. Wired remote control ports shall be provided for Paging Zone Assign, Zone Program Select and Zone Level.

Page inputs shall use 5 pin Euroblock connector. Paging controls shall include:

- 30 dB Mic/Line Input Pad.
- Input Gain trim range of 30 dB to 60 dB.
- Mic gate Threshold (range -\footnote to +4 dBu).
- 15 volt Phantom Power (internal switch).
- Paging Priority (Page 1, None, Page 2; internal switch).
- Pre- or Post- Zone Level summing (internal switch).
- Front panel Paging Zone Assign (RMT, Z1, Z2, Both).
- Remote Paging Zone Assign (Off, Z1, Z2, Both).
- Paging Zone Level.

Each Program input shall have stereo RCA input jacks and Independent input Level control. The Priority Program Assign switch shall provide Priority Program override to Zone 1, Zone 2, Both, or neither (off). The gated Priority Program input shall have internally adjustable Threshold and Release-Time controls.

Zone outputs shall use 5-pin Euroblock connectors. Zone controls shall include:

- · Ducker On/Off
- Ducker depth (-6 to -50 dB)
- Program Select (L1, L2, L3, P)
- Zone Level
- 7 Band Graphic EQ (±12 dB)
- Servo-Locked-Limiter<sup>™</sup> Threshold (-20 to +20 dBu)
- Mono switch for Zone 1 (internal)
- Remote Engage switch

Wired Remote Ports shall use 5 pin Euroblock connectors. Remote logic shall be active low with internal pull-up. Remote Level control shall be ratiometric DC control with 5 volt reference.

The unit shall be exempt from agency safety requirements and powered from a UL listed, CSA certified remote power supply (meeting CE-EMC requirements for 230 VAC). Components shall mount on double sided, through-hole-plated, G10FR Epoxy board. The chassis shall be constructed entirely from cold-rolled steel, and mount into a standard EIA relay rack occupying one rack space.

Reliability and Efficiency are to be primary design considerations.

The unit shall be a Rane Corporation CP 64 Commercial Processor.

### **Available Accessories**

- SC 1.7 Security Cover
- PR 2 Page Assign Remote Control
- ZR 1 Zone Source/Volume Remote Control
- Hole Plugs (6 Provided)