Designed for Commercial, Built for Your Business

MCA1120
Mono Mixing Amplifier

PCA1120
Mono Power Amplifier

Main Functions

120w @ 2Ω/70V/100V Class-D Amp, with 1RU half-rack wide

4 inputs with 1 output Mixer-Amplifier for background music and paging application (MCA1120)

1in and 1 loop out for daisy chaining amplifier up to 10 units for system expansion (PCA1120)

Bi-directional RS232, IR and external Remote Volume control for system integration

Preset EQ for loudspeakers and 12 Parametric EQ/HPF/LPF for further sound optimization

Smooth automatic transition between music and paging with Auto Mic ducker and Feedback Suppressor (MCA1120).

Bluetooth and Front USB power supply for easy connection with tablet or portable player (MCA1120)

Main Features

■ Space saving

Compact Half-rack wide, 1U design.

Optional rack mount kit allows one or two amplifiers to be mounted into 1U space. Also, side air-forced ventiration allows direct stacking without any gap.

■ Designed for Longevity

Select heavy duty components are specified to meet the demands of commercial applications. A protection circuit guards against overcurrent.
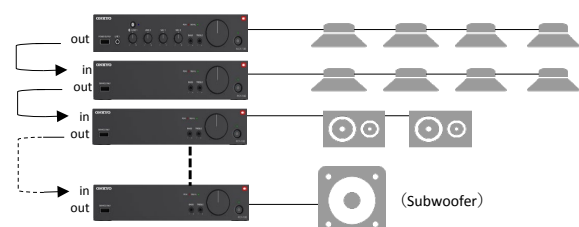

■ Integration-Friendly

Bi-directional RS232 and IR inputs, along with a robust set of install-friendly control commands, allow for easy integration with most major control systems.

Advanced control commands include Front Panel Lock, discrete Volume Level, Custom EQ settings, and more.

CONNECTS WITH Control4 CERTIFIED | CRESTRON | RTI INTEGRATION PARTNER

URC | SAVANT

■ System Scalability

PCA1120 amplifiers can be daisy-chained via line outputs for flexible system expansion. Each amp has On-Board DSP and crossover controls, allowing for various speaker types, including passive subwoofers.

（Subwoofer）

Audio Performance

Output Type	Lo-Z (2-3Ω)	Lo-Z (4-8Ω)	Hi-Z (70, 100V)	Measurement Condition	
Rated Power	120 W (2Ω)	120 W (4Ω)			
	80 W (3Ω)	80 W (6Ω)	120 W	1kHz	
	---	60 W (8Ω)			
THD+N	≦ 0.5 %	≦ 0.5 %	≦ 1.0 %	1kHz @ Rated Power	
Frequency Response	20 Hz - 20 kHz（+0dB、-6dB)			Reference 0dB @ 3W, 1kHz	
Signal-to-Noise Ratio	≦ -90dB			with IEC−C filter	

Input

Input Type	MCA1120	LINE 1	LINE 2	LINE 3 [*1]	MIC 1	MIC 2 [*1]
	PCA1120	---	LINE	---	---	---
Input Terminal		Stereo Mini (3.5mm)	Stereo RCA	EuroBlock	EuroBlock	EuroBlock
		Unbalanced	Unbalanced	Unbalanced	Balanced	Balanced
Exclusive Input		Bluetooth	---	MIC 2 [*1]	---	LINE 3 [*1]
Input Sensitivity		-14dBV	-10dBV	-10dBV	-50dBV	-50dBV [*2]
Input Impedance		43kΩ	14kΩ	14kΩ	2kΩ	2kΩ [*2]

Output

Output Type	MCA1120	Lo-Z (2-3Ω)	Lo-Z (4-8Ω)	Hi-Z (70V)	Hi-Z (100V)	PRE OUT [*3]
	PCA1120					LINE OUT [*3]
Output Terminal		EuroBlock		EuroBlock		Monaural RCA
		Balanced (-/+)		Balanced (COM / 70 or 100V)		Unbalanced
Max. Output Voltage		15.5Vrms	22Vrms	70Vrms	100Vrms	1Vrms
Output Impedance		2-3Ω	4-8Ω	41Ω	82Ω	2kΩ

Integrated DSP

Sound Processing	BGM Mode, Auto Leveler, Preset EQ for Loudspeaker, HPF, LPF (PCA only)
Mic. Proc. (MCA only)	Auto Priority Ducker, Feedback Suppressor, Paging with PTT switch
Full Custom EQ	Parametric EQ, HPF, LPF, High-Shelving, Low-Shelving (Total 12 Proc.)

System Control

External Control	RS232C (two-way communication), IR (Infrared), Remote Volume (10kΩ potentiometer)
Others	Front Panel Key Lock, Auto Power On, Auto Standby

Bluetooth & USB (MCA only)

Communication Range	Max. 10m (Line of sight approx.)
USB Terminal	5V / 2.1A (For Power Supply)

General

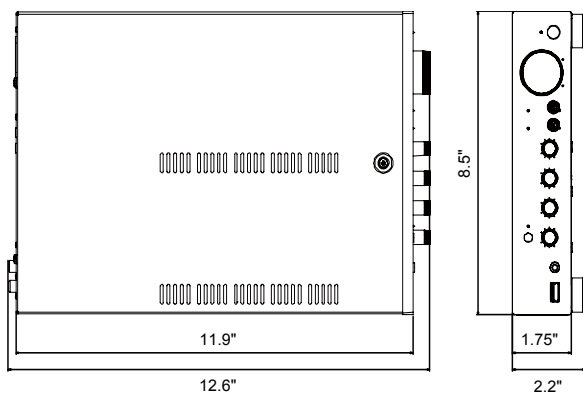|	
Operating Temperature	0 - 40 ℃ @ Non-condensing
Power Supply	AC 100 - 240V (50/60 Hz)
Power Consumption	215W (Max.), 10W (Idling), 0.4W (Standby)
Rack Space Units	1 RU high, half rack wide (Rack Mount Kit : IRK-44-3)
Product Weight	3.6kg (7.9lbs)

*1 : MIC 2 and LINE 3 are exclusive inputs. Only one can be used.

*2 : The MIC2 input can also be used for the Line level output microphone depending on the setting.

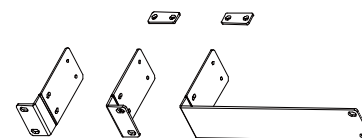*3 : The output level of PRE OUT (MCA) is link to the main volume level. The output level of LINE OUT (PCA) is fixed regardless of the volume level.

Dimension   *MCA and PCA are the same size

8.5"
11.9"
12.6"
1.75"
2.2"

Optional Kit

Optional rack mounting kit for 1U size
Apply both one unit or two units installation

Rack Mounting Accessory   **IRK-44-3**
$65 MSRP

■ Specifications and features are subject to change without notice.

Onkyo Marketing Corporation

https://www.en.onkyo-mc.com/

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