

# CloudPower

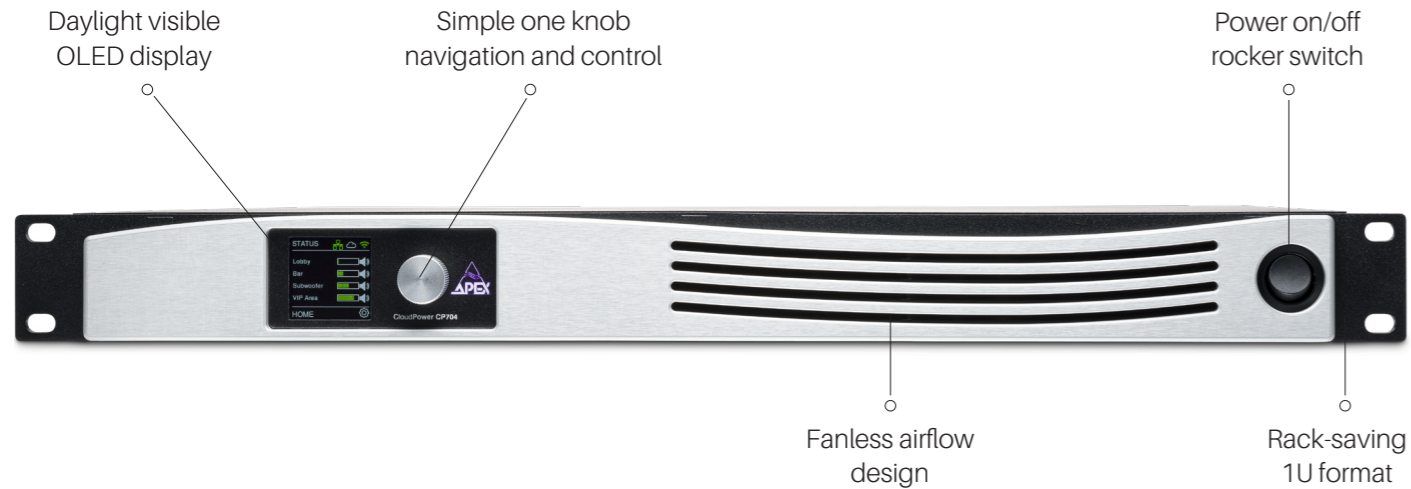
High-Fidelity Class-D Installation Amplifiers



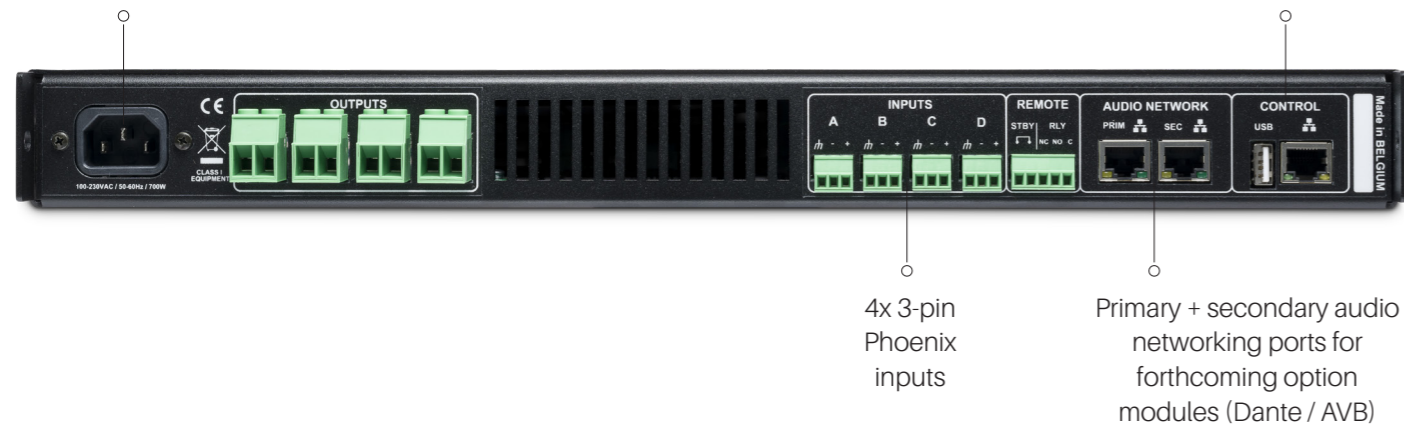


### 4 Channel Amplifiers With Integral DSP and Remote Control

CloudPower is a family of next-generation four channel Class-D amplifiers, built on our proprietary GlidePath direct drive architecture for class-leading audio performance. Multiple amplifiers can be easily monitored and controlled remotely via the APEX Cloud using our elegant Web UI. Available in four models ranging from 350W to 3000W per channel, CloudPower is an efficient, contemporary solution for applications scaling from karaoke rooms to opera houses.



IEC Inlet. Universal switch mode power supply with active PFC 100-240VAC +-50-60Hz



## Features

- GlidePath architecture for ultra-low distortion
- True Cone Excursion for extended speaker life
- Fully integrated DSP
- Secure remote control / monitoring in the cloud
- Web UI with built-in WiFi hotspot - no software to download
- Silent airflow management
- High efficiency and low idle power
- Unique internal streaming source - Spotify / AirPlay compatible
- 4 channel Class-D amplifiers
- Dante and AVB networking options
- Deploy networked or standalone
- Wired LAN Ethernet connection
- High visibility OLED display
- Drive low impedance and 70/100v speakers
- Slimline 1U chassis
- Universal power supply & PFC

## Products in this series

				
	<b>CloudPower CP354</b>	<b>CloudPower CP704</b>	<b>CloudPower CP1504</b>	<b>CloudPower CP3004</b>
Application	Installation amplifier	Installation amplifier	Installation / touring amplifier	Installation / touring amplifier
Power	4 x 350W @ 4ohm, 8ohm, 70V, 100V	4 x 700W @ 4ohm, 8ohm, 70V, 100V	4 x 1500W @ 4ohm, 8ohm, 70V, 100V	4 x 3000W @ 4ohm, 8ohm, 70V, 100V
Inputs	4x 3-pin Phoenix 4x Dante or AVB (w/ option card)	4x 3-pin Phoenix 4x Dante or AVB (w/ option card)	4x 3-pin Phoenix 4x Dante or AVB (w/ option card)	4x 3-pin Phoenix 4x Dante or AVB (w/ option card)



## GlidePath

CloudPower is founded on our proprietary GlidePath architecture, with DSP and amplifier circuits fully integrated for outstanding performance. GlidePath employs DC coupling throughout the signal path, dramatically reducing the time offsets and distortion associated with AC coupling. The result: crisper, punchier bass and brighter, more natural high frequencies, delivering superb intelligibility and higher perceived volume.



## Cloud control

Add value for your clients by monitoring and controlling CloudPower amplifiers anytime, anywhere over the APEX Cloud via secure connection. Keep tabs on multiple amps from your favourite device with our super-intuitive IntelliCloud Web UI. IntelliCloud is browser-based, so there are no software download hassles, and fans of our IntelliWare package will immediately recognise the smooth, streamlined workflows.



## True cone excursion

GlidePath's ultra-precise reproduction of high transients manages speaker cone excursion, consistently delivering higher output under a short initial impulse and significantly reducing trail output after the signal stops in head-to-head tests against mainstream Class-D amplifiers. The result: less distortion, higher perceived volume and reduced mechanical wear on speakers. Request our White Paper for the full story.

## Silent running

Say goodbye to annoying whining fans. We engineered the fans out of CloudPower CP354 and CP704, creating an elegant self-cooling design that won't draw attention to itself, even in the most audiophile environments. The higher powered CP1504 and CP3004 models employ a bank of 8 micro-fans to virtually eliminate fan noise and maintain efficient cooling.

## Internal streaming source

CloudPower is the first amplifier in its class with an integrated audio source and streaming capability, allowing easy streaming of background music from devices running apps such as Spotify or AirPlay.

## Connect + control your way

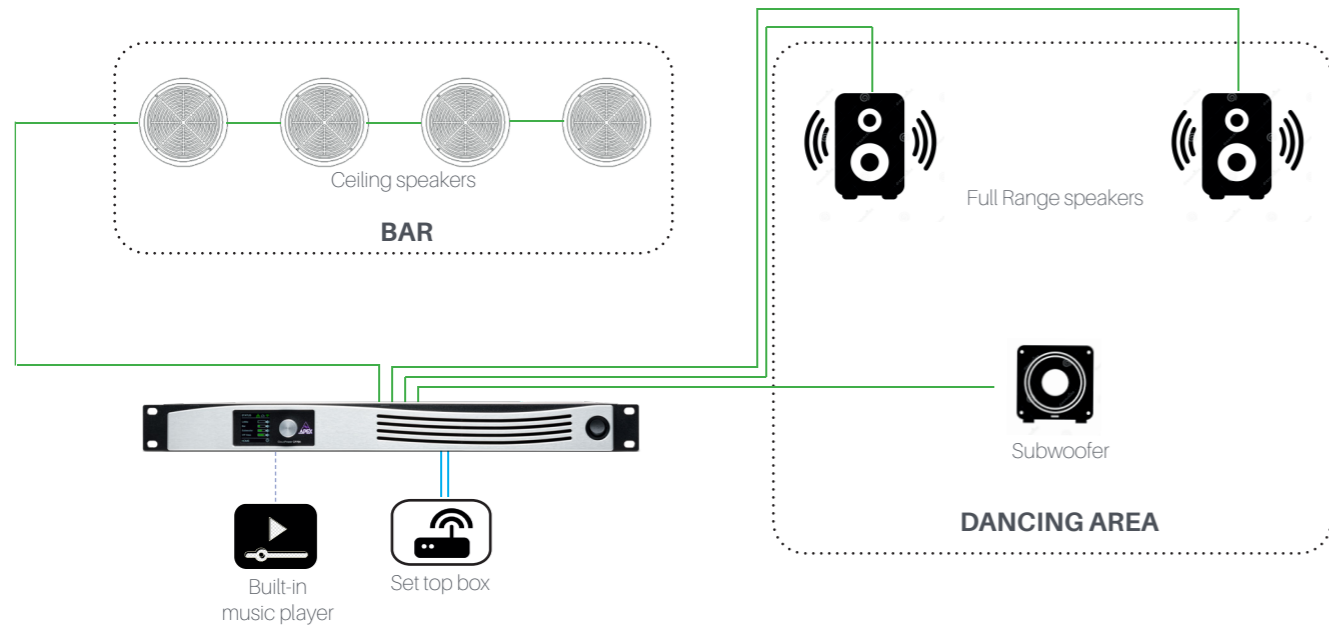
1. WiFi Hotspot - every CloudPower amplifier features a built-in access point
2. Wired IP - connect securely over a wired Local Area Network Ethernet connection
3. Hands-on front panel control with touch 'n turn rotary control and high visibility OLED display

## Universal power

CloudPower is ready to serve worldwide from 100-240VAC. Active Power Factor correction ensures efficient use of the mains power system. All models feature both remote and front panel on/off switching and detachable mains cables.



## Application examples

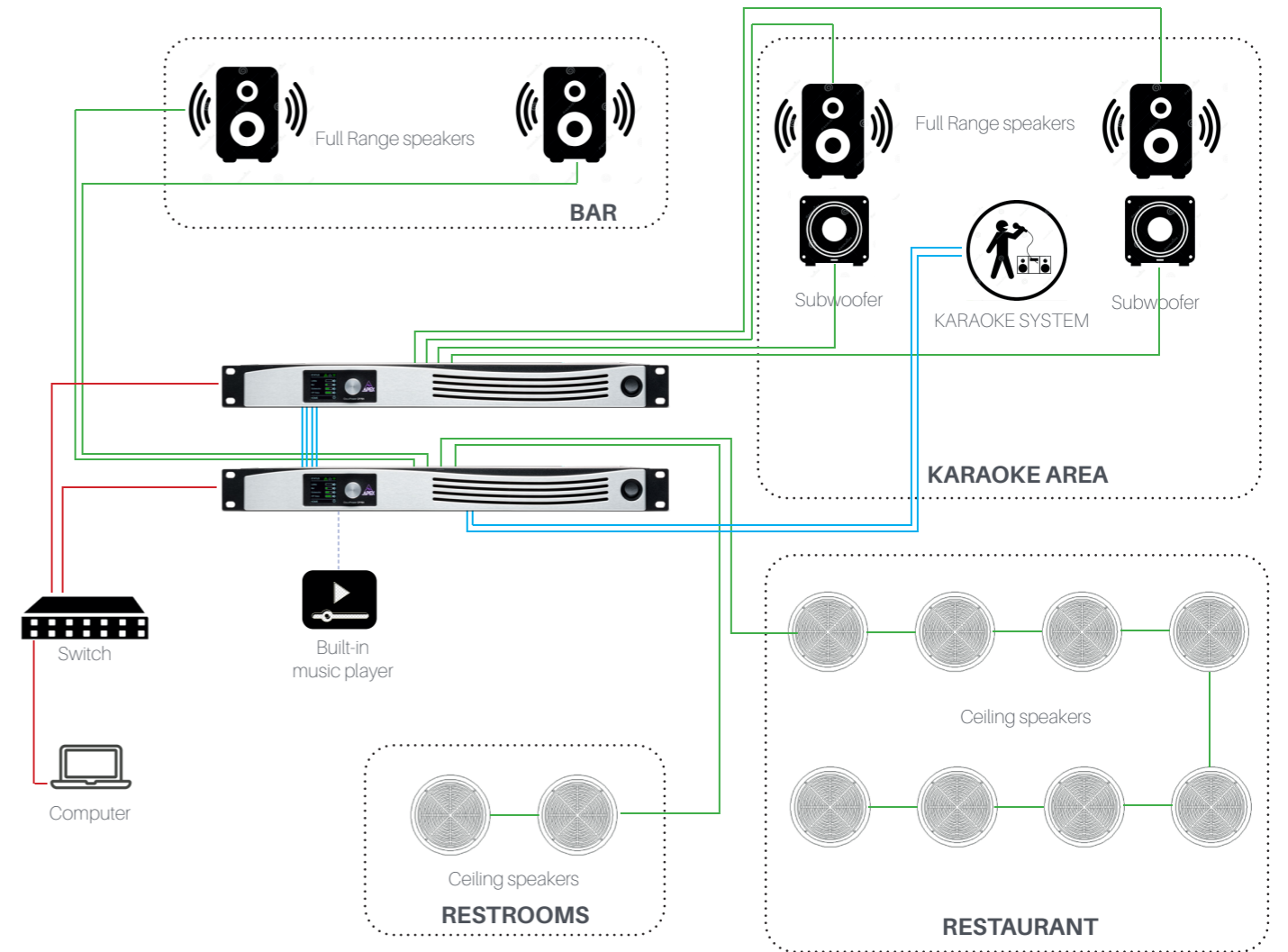


### Bar

In this bar example, the two rooms are each equipped with their own speaker system comprising of a bar zone with ceiling mount loudspeakers and a dancing area with a stereo set of full range loudspeakers. Each of the systems is able to play any of the selected analog sources. The level can be easily adjusted via the front panel control or via an optional external computer.



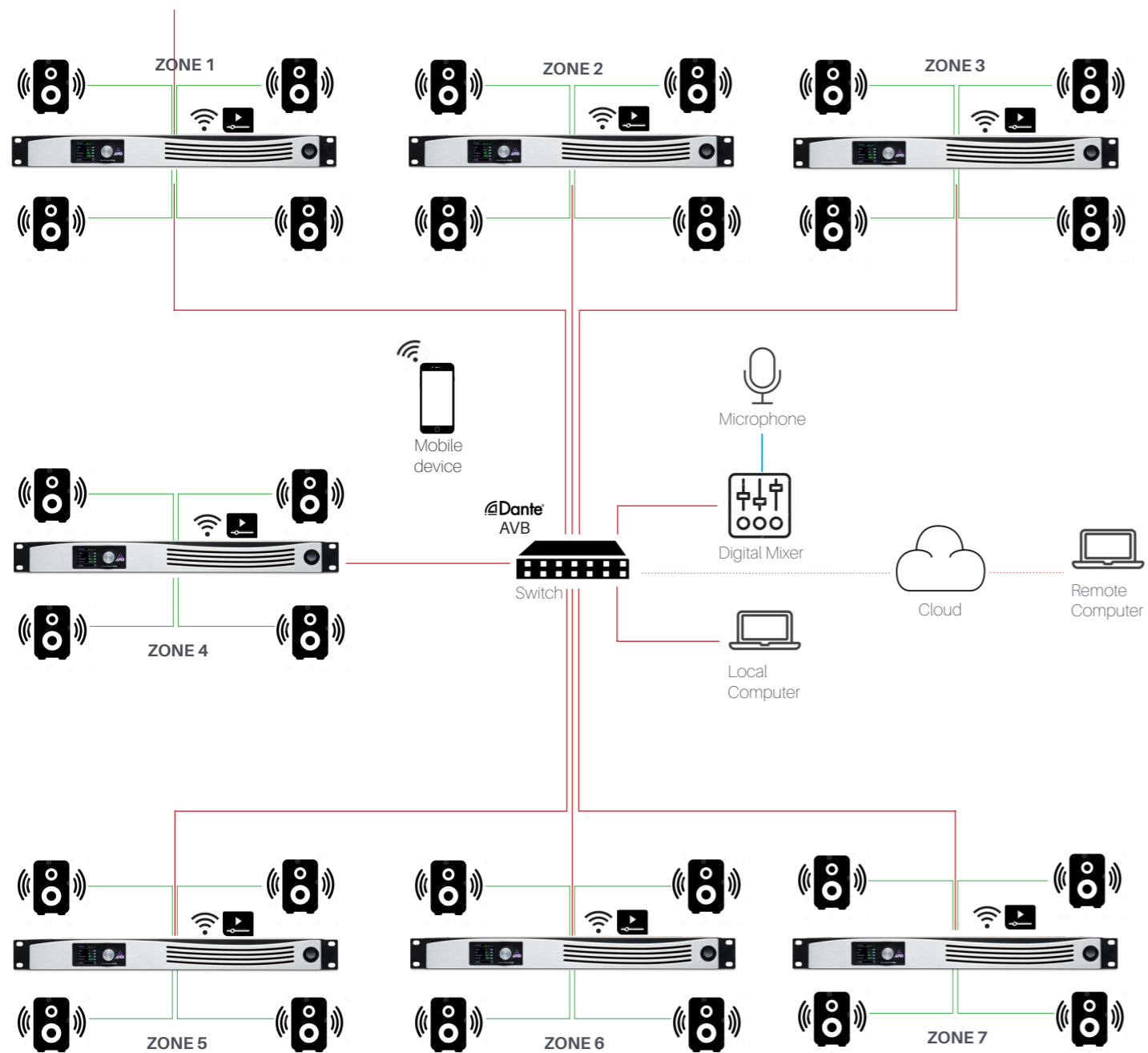
— Analog signal  
— Speaker  
- - - Built-in source



### Restaurant with karaoke area

In this restaurant example, the four rooms are each equipped with their own speaker system comprising of a bar zone with full range loudspeakers, a Karaoke area with a small PA system, a restaurant with ceiling loudspeakers and the rest rooms, also equipped with ceiling loudspeakers. Each of the systems is able to play any of the selected analog or digital sources. This can be analog inputs from the Karaoke or Music player and digital input coming from a laptop connected to the main switch. The IntelliWare web based software has a powerful group function, so changes for every zone can be made from the central computer.

- Analog signal
- Speaker
- Digital Network
- - - Built-in source



### Museum

In this museum example, all the zones are equipped with their own speaker and amplifier system. The CloudPower devices are connected to a central switch with standard network cabling. Settings can be done with either the central local computer or from a remote location over the internet. Fine tuning can be done with any mobile device connected to an amp's hotspot.



## Processing functions

### User processing functions

Gain: -80 to +15dB, 0,1dB steps  
Polarity: normal / inverted  
Delay: 0 to 250ms  
PEQ: 12  
Limiter: Peak voltage, RMS voltage  
Grouping: 6 overlays - EQ(absolute), Delay(relative) and Gain(relative)  
X-over: High and low-pass crossover filtering with choice of classic types: Bessel, Butterworth and Linkwitz Riley, with slopes from 6 to 48 dB/oct.

### Speaker processing functions

Gain: -80 to +15dB, 0,1dB steps  
Polarity: normal / inverted  
Delay: 0 to 40ms  
PEQ: 12  
FIR filters: 1024 taps per channel  
Limiter: Dual-stage, RMS + look ahead Peak limiter  
X-over: High and low-pass crossover filtering with choice of classic types: Bessel, Butterworth and Linkwitz Riley, with slopes from 6 to 48 dB/oct.





# APEX

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