



Apex CloudPower CP704 professional amplifiers feature built-in DSP and remote control over the cloud - securely.

Connect the amplifier easily to the WebUI on any HTML5 capable browser (MAC, PC, IOS, Android) with the built-in WiFi hotspot, or to a local area network via cat5 cable.

Multiple amplifiers can be controlled through the same WebUI using the trusted and comprehensive workflow of our IntelliWare software package.

Log in to Apex Cloud and remotely manage your amplifiers from your office. Save time and money by monitoring performance and adjusting functions without the need for a site visit.

Featuring high-end studio-grade analogue circuit designs, the Apex CloudPower series sets a new benchmark in powered system management and speaker processing design. The proprietary Class-D amplifier control loop features GlidePath direct drive technology and exceptionally low intermodulation figures resulting in wide stereo imaging.

Whether the application is a standalone system amplifier, or a comprehensive networked system with multiple amplifiers, the Apex CloudPower series is designed to provide the solution that our clients demand. With comprehensive loudspeaker preset capability, implementing CloudPower into your system couldn't be easier.

## FEATURES

- Remote management over Apex Cloud
- All models can directly-drive low impedance or 70/100v loudspeakers
- High-efficiency, low idle power
- WebUI with built-in Wi-Fi Hotspot.
- Daylight viewable colour OLED display
- 4-channel platform
- 750 Watts per channel
- Optional 4-input digital network card
- Unique internal streaming source supporting Spotify en Airplay

**Operating conditions**

Temperature	0° to 50° C, 10 to 60 % non-condensing
Storage temperature	-20° to 70° C
Safety / Compliance	CB Certificate

**Amplification and power supply**

Amplification class	Class D Glide Path technology
Power supply model	Universal switch mode power supply's with active PFC
Power Factor	> 0,9 above 1/2 P
Mains Rating	100-240V @ 50-60 Hz
Operating Voltage	90-260V
AC Mains connector	IEC C20 Inlet (20 A max) , CP1504 -3004 Powercon 32A

**Audio Specifications**

Frequency response	1Hz-22kHz
Distortion THD+N	0,05% @ P/2, 20Hz- 20 kHz, 22 kHz BW
Noise level (20 Hz - 20 kHz 8 ohm, A-weighted)	
Latency	
Phase response	±10 deg 20hz - 20kHz

**DSP**

Digital Signal Processor	64 bit fix point
I/O Routing	Flexible Routing matrix

**User processing functions per channel**

Gain:	-80 to +15dB, 0,1dB steps
Polarity:	normal / inverted
Delay:	0 to 250 ms (Shared between User and Group settings)
PEQ:	12 x PEQ.Each PEQ can be set to a choice of 16 filtertypes (1)
HP/LP filters:	Bessel , Butterworth and Linkwitz Riley with slopes from 6 to 48 dB/oct
Limiter:	Peak voltage, RMS voltage

**Group processing functions**

Six global processing groups overlays which can link any amplifier channel in the network

Gain:	-80 to +15dB, 0,1dB steps
Polarity:	normal / inverted
Delay:	0 to 250 ms (Shared between User and Group settings)
PEQ:	12 x PEQ.Each PEQ can be set to a choice of 16 filtertypes (1)

**Speaker processing functions**

Gain:	-80 to +15dB, 0,1dB steps
Polarity:	normal / inverted
Delay:	0 to 250 ms (Shared between User and Group settings)
PEQ:	12 x PEQ.Each PEQ can be set to a choice of 16 filtertypes (1)
HP/LP filters:	Bessel , Butterworth and Linkwitz Riley with slopes from 6 to 48 dB/oct
Limiter:	Peak voltage, RMS voltage
FIR filters:	1024 taps per channel
(1) Filter types:	Bell-Sym,Bell-Asym, Notch, Low-Shelf 6dB or 12dB, High-Shelf 6dB or 12db All-Pass 90° or 180°, High-Pass 6dB, or 12dB, High-Pass VariQ 12dB, Low-Pass 6dB or 12dB, Low-Pass Vari-Q 12dB, Band-Pass

**Circuits protection**

Mains and power supply	Under, over voltage, over current protection
Power outputs	DC, Overtemp, Overcurrent limiter, VHF
Load monitoring	Realtime load monitoring and internal pilot tone
Cooling	Passive air cooling

**Inputs**

<b>Analog</b>	4 balanced analog line inputs 4x 3-pin Phoenix
A/D conversion	32 bit
Input impedance	10 kOhm
Max. input level	21 dBu
<b>Digital</b>	Optional digital network card (DANTE or AVB Milan)
<b>Internal Streaming source</b>	Two channels internal streaming source supporting Spotify en Airplay

**Remote control and monitoring**

Network connection	Single port Ethernet Gigabit interface
Apex remote control software	CloudWare

**Front panel indicators**

Daylight viewable colour OLED display	Real time level, limit and fault indicators
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**CP704**

Total burst power (all channels driven)	2800
2 ohms	700
4 ohms	700
8 ohms	500
16 ohms	250
Hi-Z 70V	280
Hi-Z 100V	140

**Max Output Power bridged mode**

4 ohms	1400
8 ohms	1400
16 ohms	1000

**Power and Thermal 115 V**

Idle Power	30W
Idle Current Draw	0.3A
Idle Thermal loss	102 BTU/h
1/8 Power @ 4 Ohm Power	375W
1/8 Power @ 4 Ohm Current Draw	3.3A
1/8 Power @ 4 Ohm Thermal loss	682 BTU/h

**Power and Thermal 230V**

Idle Power	30W
Idle Current Draw	0.15A
Idle Thermal loss	102 BTU/h
1/8 Power @ 4 Ohm Power	375W
1/8 Power @ 4 Ohm Current Draw	1.65A
1/8 Power @ 4 Ohm Thermal loss	640 BTU/h

CP704

Unit Dimensions	19" x 1,7" x 14" in
Shipping Dimensions	22" x 4,7" x 22,1" in
Unit Weight	6 Kg - 13 Lbs
Shipping weight	7,5 Kg - 16,5 Lbs

