



AP10 Telephone Interface

The Audio Perfect® 10 (AP10) is specifically designed as the telephone interface portion of an Audio Perfect system. The AP10 is used in Audio Perfect systems that require audio conferencing participants to be connected via a telephone line.

The AP10 is easy to install and simple to operate while providing high audio quality for single telephone line conferencing. The AP10 provides audio for telephone connections with a bandwidth of 250Hz–3.5kHz—the bandwidth of a standard telephone line.

The AP10's component design allows multiple telephone lines to be conferenced into an Audio Perfect system. Up to 16 AP10s can be added, conferenced, and controlled in an Audio Perfect system.

The AP10 is fully remote controllable. A rear panel G-Link provides system-wide control by popular remote control systems such as AMX and Crestron. Each AP10 in an Audio Perfect system can be addressed and controlled individually. The G-Link also provides access to DTMF (touch-tone) dialing to enable the user to dial telephone numbers or issue tones to access voice mail systems without the use of a separate telephone set.

The AP10 has several operational options that are selected via the DIP switches behind the front panel access door. These options are configured at the time of installation and include Device Identification, Receive

AGC, Auto-Answer, Auto-Disconnect, Disconnect on Loop or Loop and Call Progression, Self-Adapt or Noise Adapt, and Momentary or Latching On/Off Control.



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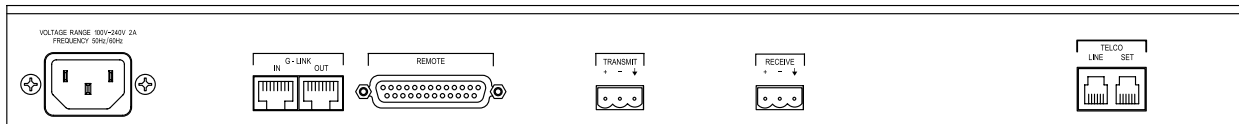
Features and Benefits

- Easy to install—simple to operate
- ClearOne's Digital Signal Processing (DSP) technology—ensures crystal clear audio with the deepest, most reliable hybrid null
- Simultaneous two-wire/four-wire capability within an Audio Perfect system—allows telephone participants and video conference participants the ability to communicate simultaneously with full-duplex audio
- Receive automatic gain control—ensures receive audio level consistency in every call
- Conference up to 16 callers (16 AP10s) in an Audio Perfect system—allows extreme flexibility in meeting customer requirements
- G-Link control—allows seamless integration with an AMX, Crestron or other similar remote control device—all AP10s in the system can be controlled from one AP800 RS-232 port
- Selectable auto-answer and auto-disconnect—allows integrators the ability to select auto-disconnect without auto-answer and vice versa
- Worldwide compliance—includes FCC, CSA, and CE

Applications

- Conference Rooms
- Boardrooms
- Distance Learning
- Training Rooms
- Courtrooms
- Hotels

The AP10 is manufactured and marketed by ClearOne, formerly Gentner.



Specifications

Dimensions (LxDxH)

17.25" x 10.25" x 1.75"
43.8 x 26 x 4.5 cm

Weight

7.5 lb/3.4 kg dry
12.6 lb/5.7 kg shipping

Operating Temperature

32 to 100° F/0 to 38° C

Humidity

0% to 80%, non-condensing

Power Input Range

Auto-adjusting
100–240VAC; 50/60Hz

Power Consumption

8W typical

Front Panel DIP Switches

Device Identification:
4-position DIP switch
Receive AGC
Auto-Answer
Auto-Disconnect
Self-Adapt
Disconnect on Loop or Loop and Call Progression
Noise Burst Adapt
Momentary On/Off
Latching On/Off

G-Link In/Out

Proprietary Network
RJ-45 (2), 38.4kbps,
110kΩ impedance
Category five twisted-pair cable
20' (6 meters) maximum cable length
between two networked devices

Control/Status

DB-25 female
Inputs: active low (pull to ground)
Outputs: Open collector, 40VDC max,
40mA each
Unbalanced transmit and receive

Telco Line

RJ-11
POTS (plain old telephone service)
or analog extension from a PBX
A-lead supervision provided

Telco Set

RJ-11
Connect analog telephone set
A-lead supervision provided

Transmit Input

Push-on terminal block,
balanced, bridging
Impedance: >20kΩ
Nominal Level: 0dBu
Maximum Level: 20dBu

Receive Output

Push-on terminal block, balanced
Impedance: <50Ω
Nominal Level: 0dBu
Maximum Level: 20dBu

Audio Performance

Conditions: Unless otherwise specified,
all measurements are performed with a
250Hz to 3.5kHz BW limit
(no weighting). Reference to 0dBu
at -15dBm on/off the telephone line
(Receive AGC disabled).
Frequency Response: 250Hz to
3.5kHz ±1dB
SNR: >56dB
THD+N: <0.3%

Telco Echo Cancellation

Tail time: 31ms
Null: 55dB nominal

Approvals

FCC, CSA, CE

Set-up Software

AP-Ware™

Typical AP10 installation

