



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 the highest possible audio quality currently available 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.



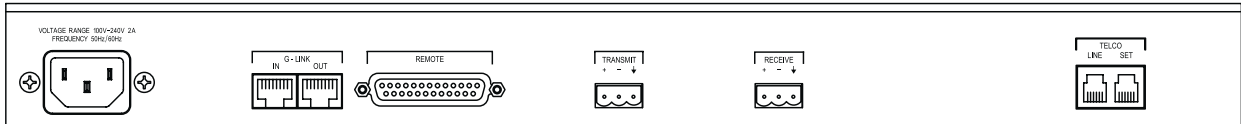
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Features and Benefits

- Easy to install—simple to operate
- Gentner'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



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
 32–100° F
 0–38° 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
 DB25 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
 TEC tail time: 31ms
 TEC null: 55dB nominal

Approvals
 FCC, CSA, CE

Set-up Software
 AP-Ware™

Typical AP10 installation

