



## 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.



**Up to 16 AP10s can be added, conferenced, and controlled in an Audio Perfect system.**

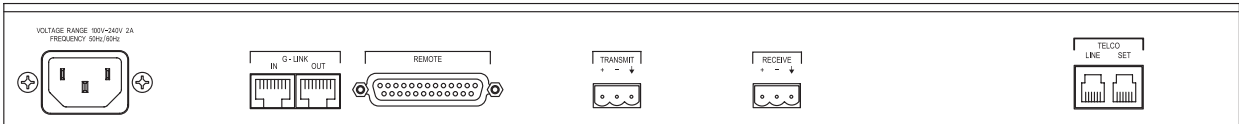
### Features and Benefits

- 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**

