AP10 Architectural and Engineering Specification

The digital telephone hybrid shall integrate a standard 600-ohm analog telephone line with a nominal level of -9 to -15dB into an audioconferencing system. The hybrid shall provide two RJ-11 connectors for connection to a telephone line and telephone set. DTMF dial tones shall be incorporated into the hybrid eliminating the need for external DTMF cards.

The hybrid shall include a balanced line-level input and a balanced line-level output to pass audio to and from the audioconferencing device. The input and output shall each have a selectable mute accessed via serial command or contact closure. The input and output shall use three-pin push-on terminal blocks.

The hybrid shall have telephone line echo cancellation with a tail time of no less than 31ms. Line echo shall be attenuated at least 55dB. The audio frequency response shall be at least 250Hz to 3500Hz and a signal to noise ratio of >56dB re 0dBu at -15dBm on the telephone line.

The hybrid shall allow manual enabling/disabling of telephone calls through buttons on the front panel. It shall have selectable auto answer and auto disconnect. Additional settings shall be enabled through 12 front panel (behind an access panel) DIP switches for setup configuration. These switches shall select either burst adapt or auto adapt hybrid null, receive reduction, receive boost of 6dB, on/off receive AGC, auto answer, auto disconnect, and loop drop or call progress. The presence of transmit and receive audio and clipped audio signals, as well as on and off status, shall be indicated by LEDs on the front panel of the unit.

The hybrid shall be controlled serially through a high-speed digital bus, externally through a DB-25 contact closure/status port, or with the unit¹s front panel buttons.

The hybrid shall use a single rack space and an internal 100-240VAC auto-adjusting power supply. It shall meet FCC, CSA, and CE requirements.

The Gentner AP10 is specified.