

## XAP TH2 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.

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, custom software, or contact closure. The input and output shall use three-pin Phoenix connectors.

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 3300Hz with a signal to noise ratio of >62dB re max level.

An audible/visual/serial ring indication and DTMF dialing capability shall be provided on the hybrid.

The unit shall have a digital network bus to receive system control. Up to sixteen units can be linked to add up to 16 telephone lines to the audioconferencing system.

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 configuration software. This software shall select either burst adapt or auto adapt hybrid null, receive reduction, selectable receive boost of 0, 3, 6, 9, or 12dB, on/off receive automatic level control (ALC), auto answer, auto disconnect, loop drop or call progress, DTMF level, dial tone level, audible hook indication, and audible ringer indication. The hybrid shall be able to store 10 speed dial numbers.

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 unit shall have the ability to meter transmit and receive audio.

The unit shall be set up and operated with intuitive software that allows complete configuration of the system. Additional control shall be handled via custom control software, RS-232 protocol (with communications speeds up to 57,600 baud), or contact closure.

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

The Gentner XAP TH2 is specified.