



CooVox Hardware Echo Cancellation Module Datasheet



Compared to software echo cancellation, hardware echo cancellation is more effective in practical calls and VoIP communications. You may be confused by many IP PBX suppliers when you find the same words "echo cancellation" from their product datasheet, but the echo problem during the call hasn't been solved yet. The real reason is that it's not real hardware echo cancellation, but only echo cancellation on software.

Hardware echo cancellation can be more successful, because it removes the burden of echo cancellation from the CPU. Hardware echo cancellation is also advantageous when handling large call volumes or a high number of channels that would otherwise stress the CPU and result in the potential for poor audio quality.

ZYCOO Hardware Echo Cancellation Module :

32EM

32 Channels
Applicable for CooVox-U50/100



ZYCOO Echo Cancellation Module is designed with Zarlink ZL38065 chip for voice echo canceller, which has the following features:

- Independent multiple channels of echo cancellation, from 32 channels of 64 ms to 16 channels of 128 ms with the ability to mix channels at 128 ms or 64 ms in any combination
- Fully compliant to ITU-T G.165, G.168 (2000) and (2002) specifications
- Passed all AT&T voice quality tests for carrier grade echo canceller systems
- Unparalleled in-system tunability
- Sub 50 ms initial convergence times under many typical network conditions
- Fast reconvergence on echo path changes
- Patented Advanced Non-Linear Processor with high quality subjective performance
- Superior noise matching algorithm
- Per channel Fax/Modem G.164 2100 Hz or G.165 2100 Hz phase reversal Tone Disable
- Protection against narrow band signal divergence and instability in high echo environments

Environmental Operation Information

Temperature: 0°C ~ 40°C
Humidity: 5% ~ 95% Non-Condensing

Physical Dimensions

31 × 28 mm



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