

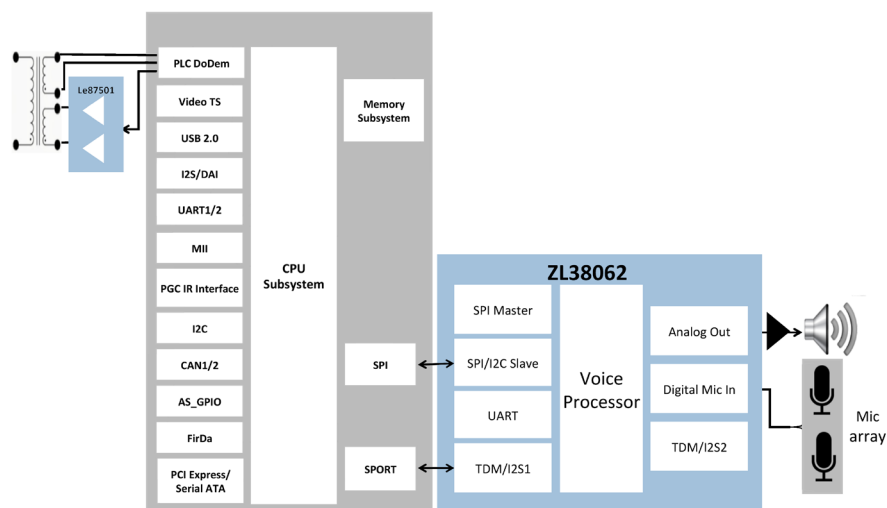
Microsemi Timberwolf™ Audio Processor

Security Monitoring for the Connected Home

Powerline Voice Communication/Sound Classification System Application

The Powerline voice communication/Sound Classification system has the following feature set:

- Microsemi ZL38062 Advanced Audio Processor
- High-fidelity 16 kHz sampling
- Sound Classification
 - T3/T4 Alarm Detection
 - Glass Breaking Detection
 - Programmable Energy Detection
- Acoustic Echo Canceller (AEC)
- Line Echo Canceller (LEC)
- Power Line Communication



Powerline Voice Communication/Sound Classification Block Diagram

Microsemi Auto Tuning Tool (ZLE38470)

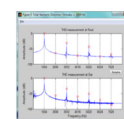
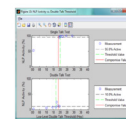
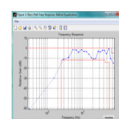
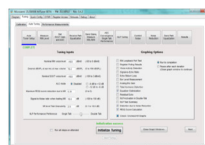
Microsemi's MiTuner™ Kit eases the system tuning complexity and speed up design cycle for quick development. MiTuner™ kit provides hardware, software and support for the automatic tuning of Timberwolf family of audio processors.

Calibration



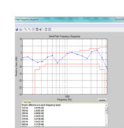
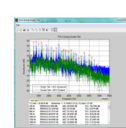
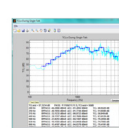
Tuning Results provides good starting point for subjective tuning

Tuning



Results based off TIA920/P.1100

Testing



Microsemi Corporate Headquarters

One Enterprise, Aliso Viejo, CA 92656 USA
 Within the USA: +1 (800) 713-4113
 Outside the USA: +1 (949) 380-6100
 Sales: +1 (949) 380-6136
 Fax: +1 (949) 215-4996
 email: sales.support@microsemi.com
 www.microsemi.com

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