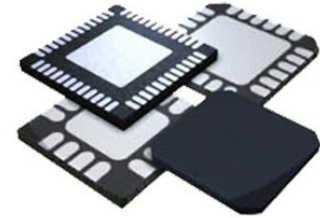



Microphone Array Audio Processor



Images are for reference only

[Inquiry](#)

Manufacturer:	Microchip Technology, Inc
Package/Case:	QFN
Product Type:	Embedded Processors & Controllers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active

General Description

The new Microsemi AcuEdge™ Technology consists of license-free, royalty-free intelligent audio IP algorithms. When combined with Microsemi's highly-integrated ZL380 series of audio processors, the solution accelerates customers' time-to-market via validated reference design and MiTuner™ GUI software. Microsemi's Timberwolf hardware provides a platform that is powered by Microsemi's AcuEdge™ audio enhancement algorithm. Microsemi's Automatic Speech Recognition (ASR) Assist technology significantly improves performance for both embedded and cloud based ASR solutions. This allows extended range detection in noisy environment and provide exceptional barge-in performance. ZL38063 enhances the user's experience for audio applications in connected home, set top boxes, smart speaker and many other applications. Although initial designed to work with Amazon Voice Service (AVS), the ZL38063 works equally well with other embedded and cloud-based voice enabled system. Simplified Block Diagram Typical Applications Connected Home Voice control Set Top Box Voice control Smart Speaker Voice control Smart Gateway Voice Command and control application

Key Features

- Supports 2-3 microphones array placement for enhanced audio pick up
- Supports 360o sound location estimation
- Audio barge-in
- Noise Reduction
- Far field microphone processing
- Two way communication

Application

- Connected Home
- Voice control Set Top Box
- Voice control Smart Speaker
- Voice control Smart Gateway
- Voice Command and control application

Recommended For You

ZL38063LDG1

Microchip Technology, Inc
QFN64

ZL38042LDG1

Microchip Technology, Inc
QFN64

ZL38052LDF1

Microchip Technology, Inc
QFN-64

ZL38052UGB2

Microchip Technology, Inc
56-UFBGAWLCSP

ZL38062LDG1

Microchip Technology, Inc
QFN-64

ZL38090LDG1

Microchip Technology, Inc
QFN-64

ZL38067LDG1

Microchip Technology, Inc
VQFN-64

ZL38050LDF1

Microchip Technology, Inc
VQFN-64

ZL38050LDG1

Microchip Technology, Inc
VQFN-64

ZL38050UGB2

Microchip Technology, Inc
QFN

ZL38063UGB2

Microchip Technology, Inc
56-WLCSP(3.05x3.05)

ZL38051UGB2

Microchip Technology, Inc
56-WLCSP

ZL38060LDG1

Microchip Technology, Inc
QFN64

ZL38060LDF1

Microchip Technology, Inc
VQFN-64

ZL38052LDG1

Microchip Technology, Inc
VQFN-64