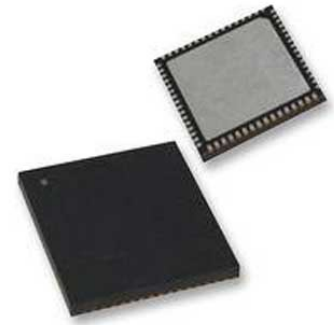



## Microphone Array Audio Processor



Images are for reference only

[Inquiry](#)

<b>Manufacturer:</b>	<a href="#">Microchip Technology, Inc</a>
<b>Package/Case:</b>	QFN64
<b>Product Type:</b>	Embedded Processors & Controllers
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	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

### ZL38063LDF1

Microchip Technology, Inc  
QFN

### 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