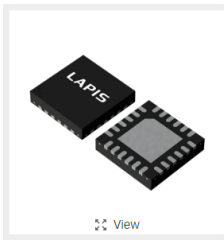




Package



View

ML22120GP (New) External Memory Type

ML22120GP is a speech synthesis LSI suitable for Acoustic Vehicle Alerting System (AVAS) and sounds outside the vehicle. It is equipped with functions for adjusting playback sounds such as vehicle proximity alert sounds. By changing the pitch and volume of the playback sound, it is possible to comply with the legal requirements for vehicle proximity alert sounds, making it easy to realize vehicle proximity alert sounds. An equalizer function is also provided to simplify sound adjustment after installation in the vehicle and for each vehicle. Furthermore, a failure detection function is provided to detect abnormalities in communication with the main microcontroller or external oscillator, allowing for safe and reliable use. The packaging for this product is tape & reel. We can also pack this product in tray (model name: ML22120GPZ05A-MX), so please contact us from the following link.

DATA SHEET

BUY

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Product Detail

Part Number	ML22120GPZ05B-MX	Status	Recommended	Package	WQFN24	RoHS	Yes
SPECIFICATIONS:							
Operating Voltage [V]	2.7 to 3.6	<input type="checkbox"/>	Operating Frequency [MHz]	4.096, 1.28, 1.024, 0.512, 0.256, 0.128, 0.064, 0.032, 0.016	<input type="checkbox"/>	8kHz sampling	
CPU I/F	I ² C / Clock synchronous serial	<input type="checkbox"/>	Number of Mixing (Internal) [ch]	4	<input type="checkbox"/>	Others	
Automotive Grade	Yes	<input type="checkbox"/>	AEC-Q100 standard	-	<input type="checkbox"/>	Pitch and volume control / 5band Equalizer / Serial Audio Interface / Failure detection	
Industrial Grade	-	<input type="checkbox"/>					

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Development Support



Development Kit

SDCK3

Supply Status

Recommended LSI

Supported LSI

- ML22530, Q532, Q533, Q535
- ML22620, Q623, Q624, Q625, Q626
- ML22660, Q663, Q664, Q665, Q666
- ML22Q234, Q244, Q254
- ML22Q274, Q284, Q294
- ML22572, 573, Q573, Q553, ML22594
- ML22Q374, Q394
- ML22562, 563, Q563
- ML22823, 824, 825
- ML22863, 864, 865

Composition

- Software: Speech LSI Utility, Wave Editor, SDCB Controller
- Hardware: Sound device control board 3 [SDCB3], accessories (USB cable)

[User's Guide](#)[Buy](#)

Reference Board

RB-D22120TB32

Supply Status

Recommended

Supported LSI

- ML22120TB
- ML22120GP

Composition

- ML22120TB mounted
- External flash memory
- Reference board with external amplifier
- User's manual

Notes

- Used by connecting to SDCB3.

[User's Guide](#)[Buy](#)

Design Resources

List View

Search:

Documents

Type	Title	Last Updated
Data Sheet	ML22120GP Data Sheet	2023/03/01
Application Note	About The Product Name	2023/08/07

Packaging & Quality

Type	Title	Last Updated
Package Information	Package Mounting Related Documents (P-WQFN24-0404-0.50-A63)	2021/11/02
Environmental Data	Environmental Data (P-WQFN24-0404-0.50-A63)	2021/11/08





Support Contents

Title	Revision	Description	Last Updated
Software : Speech LSI Tools	3.9.0	This tool is software that can convert LAPIS Technology original ADPCM2 format, etc, and edit phrases.	2023/08/25
Software : Speech LSI Tools (Release note)	3.9.0		2023/08/25
Software : Difference document with Speech LSI Utility	3.9.0		2023/08/25
AP Note : Precautions when designing a Speech LSI board	1	This application note describes the points to be noted when designing a board on which a LAPIS Technology LSI is mounted.	2021/06/30
AP Note : Speech Synthesis LSI Built-in pin pull-up / pull-down resistance	1	This document describes the pull-up / pull-down resistance values built into the pins of the Speech Synthesis LSI.	2021/11/05

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