Model Name: DVP-2560A …… Rev. A

Contents

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Introduction

***D*VP-2560A** is a digital voice module. This mini-size module designed for placing in a proper circuit board can go with the application circuit well so as to fit the standardized systems. It directly plays back 8-bit mono PCM sound files digitized at 8KHz / 11.025KHz / 16KHz / 22.05KHz / 24KHz / 32KHz.

Sound files are programmed and stored in nonvolatile EPROM chips for instant, random access. There is no restriction on the length of each sound, as long as the total length of all sounds combined fit to the chips. Users can edit the files via ROM-LINK software. When it's done, copy the file into EPROM by an EPROM writer. Then put the EPROM to a supportive IC socket for being read by the module.

DVP-2560A digital voice module and input trigger mode setting: **T**he board is designed to be a standalone device, powered by a single voltage supply. Sound playback can be triggered by a number of devices such as push button, motion sensor and dry contact closures. The built-in power amplifier can deliver up to 3W into a speaker, with adjustable volume control.

DVP-2560A digital voice module supports BINARY, PARALLEL, RS-232 modes.
The users have to edit via Rom-link Software Tool in advance. **T**here are many Playback Modes: Direct Single, Direct Single of Cycle, Binary, Parallel and Serial modes.

Editing voice via this program in Windows environment visualizes the voice editing (Waveforms are seen in the program.) and proves that it's the best software you've ever had before.

Feature

* Max. Quantity of Messages:
  Parallel Binary / Serial Mode:
  255 Messages.
* Memory Type: EPROM (27Cxxx)
  4M/8Mbits.
* Max. Memory Capacity: 8M-bits x 3
* Voice Length: (Max. 24Mbits)
  8KHz : 313 sec.
  16KHz : 189 sec.
* Voltage Supply: 5 VDC, 150mA
* Output Amplifier: Line Out

Product Photo

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Function / Specification

Input trigger pins number	8 pins
Input trigger acknowledge	TTL level input;
Exterior response signal	Busy signal and EOV signal (End of Voice), TTL level output use
EPROM IC socket number	3
EPROM IC type	4Mbit / 8Mbit
Sampling Rate support	8KHz / 11KHz / 16KHz / 22KHz / 24KHz / 32 KHz
Max. Total length	313 sec. / 8KHz
Max. quantity of message	255 messages (Please refer to Trigger Mode)
Max. address quantity of digital voice files	160 files
Input pin property support	Edge / Level , Hold / Unhold , Retrigger / Irretrigger

Trigger Mode Support / Trigger Pins Description / Max. Quantity of Message

Single Mode	X0-X7	8
Single Circulating mode	X0-X7	8
Binary Mode	X0-X6, Strobe: X7	128
Parallel Mode	X0-X7	254
Serial Mode	Rx	255
Serial Frame Mode	Rx	255

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Electronic Specification

Voltage Supply	DC 5 V / 150mA (DC-DC)
Voice Format	PCM, 8bits
Amplifier Output	Line Out
Trigger Inputs De-bounce Time	50ms at least
Watch Dog Function	Yes
Operating temperature	0℃ - 70℃
Serial baud rate and format	2400 bps / 4800 bps / 9600 bps, N, 8,1
Serial signal level	Rx: TTL
PCB Dimension (L x W x H)	66 x 37 (mm)

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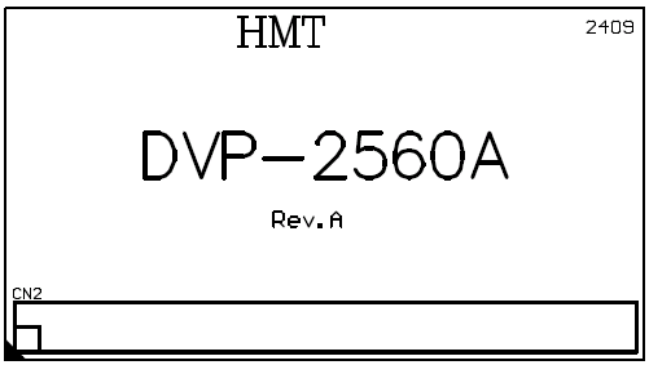
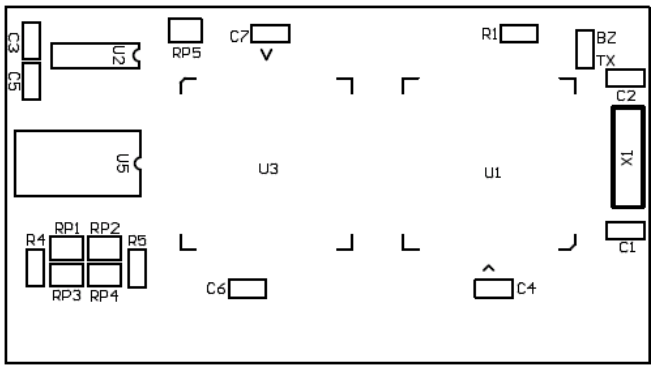
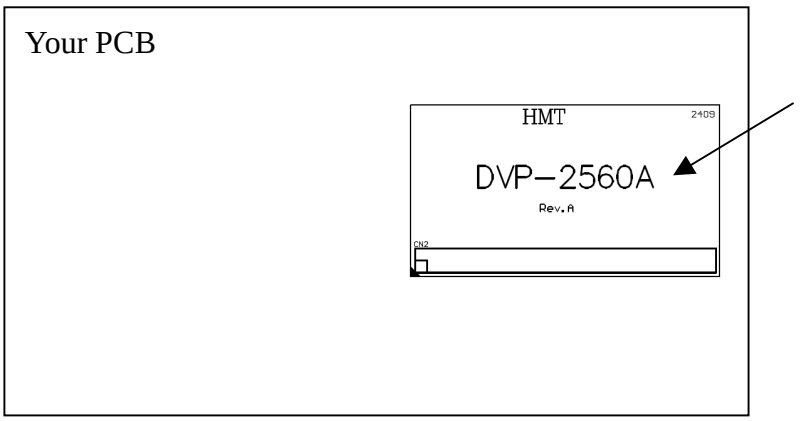
PCB Diagram





Design In Diagram



As an Add-on-board on your system.

Operation Note

Place DVP-2560A voice module onto the designed PCB, and connect to the speaker (s). When Power supply is on, the system should sound out “Beep! Beep! (two times)” It represents the P.C.B. and EPROM data programming are ready. If not, please check out Rom-link software setting and all connections.

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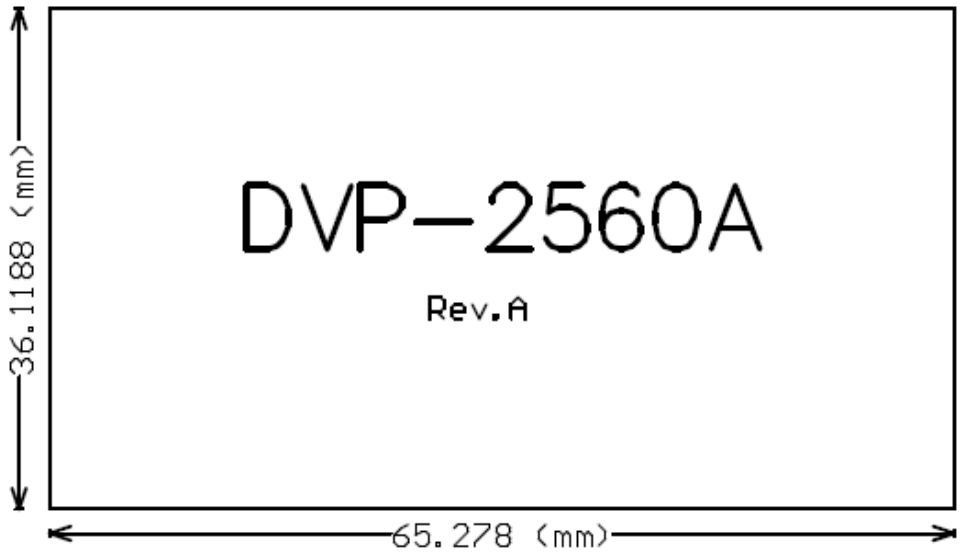
PCB Dimension Diagram



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For reference circuit diagram, please contact us:

Including:

1. **Voltage Supply circuit Diagram.**
2. **Memory Decode circuit Diagram.**
3. **D/A & Amplifier circuit Diagram.**