



# VCM-Series Product Data Sheet

Model Name: **VCM-RS80** ..... Rev.B1

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### Introduction

**VCM-RS80** is a digital voice module. It directly plays 8/16-bit mono PCM sound files digitized at 8, 11.025, 16, 22.05, 24, 32KHz. Sound files are programmed and stored in EPROM memory card. No length limitation for each sound as long as the total length of all sounds combined fit to the chips. Just edit the files via Rom-Link software from PC,

After VCM- RS80 voice module is powered, connect to outer devices like PLC and micro-controller etc. according to the model type and input trigger mode setting. The voice file can be performed via speakers. The built-in power amplifier can deliver up to 3W into a speaker, with adjustable volume control.

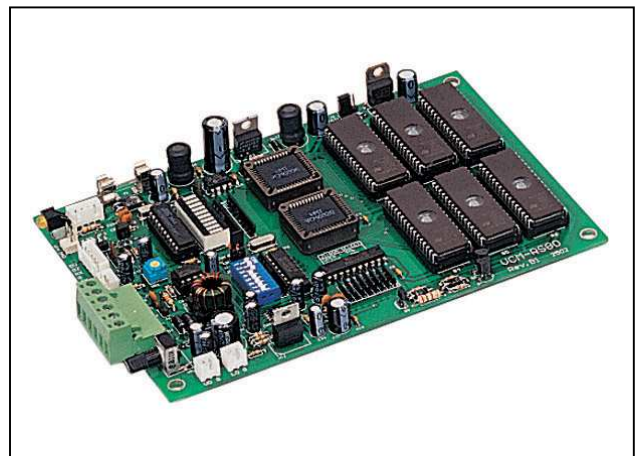
VCM-RS80 digital voice module supports serial transmission - RS-485 Input mode. Users have to edit sentence code numbers via ROM-LINK and make EPROM files by EPROM writer. Then perform EPROM files via voice modules.

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:  
Serial Mode: 255 messages
- \*Memory Type: EPROM 4M/8Mbits.
- \*Max. memory socket: 8M-bits x 6
- \*Voice Length: (Max. 48Mbits)  
8KHz: 765sec.  
16KHz: 381sec.
- \*Voltage Supply: 12~36 VDC, 1A
- \* Output Amplifier: 3W (Ro = 4 ohm)

### Product Photo





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## Function / Specification

Input Trigger Pin Numbers	RS-485, Serial Input isolated	
Exterior Response Signal	Busy Signal output can set as TTL or According to input voltage level to output.	
EPROM IC socket	EPROM Sockets X 6	
EPROM IC type	4Mbit / 8Mbit	
Sampling Rate Support	8KHz / 11KHz / 16KHz / 22KHz / 24KHz / 32 KHz	
Max. Total Length	765 sec / 8KHz	
Max. Quantity of Message	255 messages (Please refer to Trigger Mode)	
Max. Quantity of Digital Voice Files	160 files	
<b>Trigger Mode Support / Input Trigger Usage / Max. Message Output</b>		
RS- 485 Serial Code Mode	485+ / 485-	255

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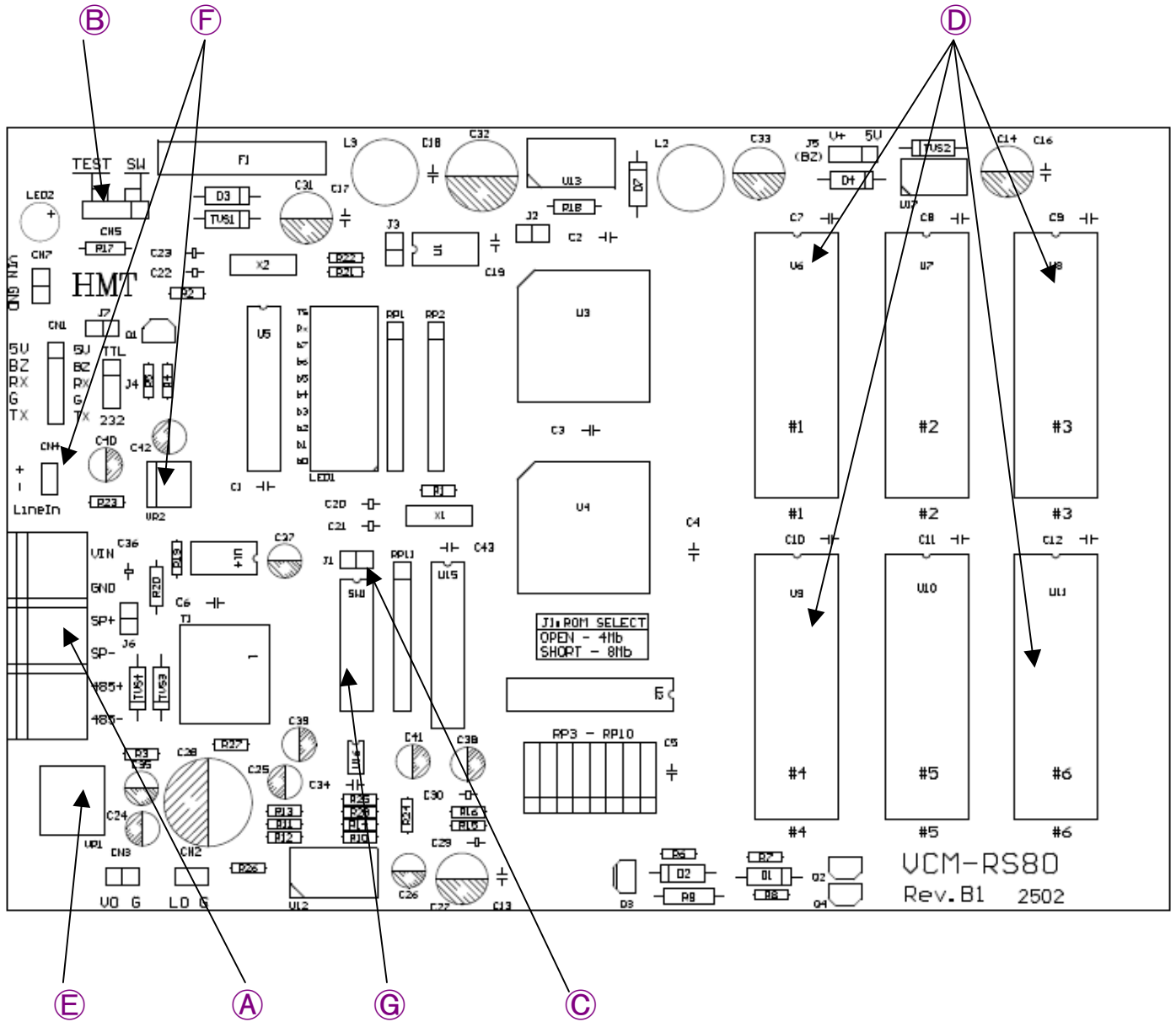
## Electronic Specification

Voltage Supply	DC 12 - 36 V / 1A (DC-DC)
Voice Format	PCM, 8 bits
Amplifier Output	3 Watt, Ro = 4 ohm
Consumption (Audio Output)	0.6A at DC 24 Vin
Consumption (LINE OUT)	130mA at DC 24V
Trigger Inputs De-bounce Time	80ms at least
Watch Dog Function	Yes
Reverse Side Voltage Protection	Yes
TVS Function	Yes
Temperature for Operation	0°C - 70°C
Line Out	Yes
Volume Control	Yes
Serial Baud Rate and Format	Rs-485 format
Serial signal Level	隔離式 RS-485
Software Application	TrueWave / Rom-Link
PCB Dimension (L x W x H)	178 x 120 (mm)

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## PCB Diagram



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## Jumpers & Connectors Description

A	歐式端子 : VIN → Power Supply 12-36 V (1A) GND → 0V SP+ / SP- → Connect to Horn 485+ , 485- → Connect to RS-485 Serial data signal.		
B	CN5: two-section on/off connection position ( for box use ) . PIN is at SW side ( for no box use ) (Option: No available)	E	VR2: Line out
C	J1,J2: EIPROM Type setting	F	VR1,CN4: Power amplifier output
D	EPROM IC socket #1 - #6	G	SW1: (Elevator voice module appliance) Selections for test the sequences of messages and contents:

## Description

Connect VCM-RS80 voice module power supply to an amplifier and then turn to “STAND BY”. Users will hear, ”Beep! Beep!” which means the connection and the settings of EPROM are done and being ready to receive the input trigger signals. If not hearing ”Beep! Beep!”, please check whether the connections to the module, ROM\_Link settings and the burning procedures are correct or not.

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## PCB Dimension

