

Wi-Fi MP3 Alarm Controller



ALM-06-WF

6-channel Digital Input and 1-channel Relay Output
MP3 Audio Alarm Controller

Introduction

The ALM-06-WF controller have WLAN connection complies with the IEEE802.11b/g/n standards. With the popularity of 802.11 network infrastructure, the controller make an easy way to incorporate wireless connectivity into monitoring and control systems. They also support Modbus TCP monitoring protocol and the network encryption configuration, which makes perfect integration to monitoring in SCADA software, HMI Modbus APP & Utilities.

ALM-06-WF include 6 channels Isolated DI, with 8 kinds of alarm mode, 1 channel Relay output & 1 Audio Line out.

MP3 format(44.1kHz/128kbit/s is prefer) Audio, file stored at Micro SD(T-Flash).

System Specifications

Communication	
Interface	Wi-Fi 2.4G
Standard	IEEE 802.11 b/g/n
Encryption	WEP, WPA/WPA2-PSK
Mode	Access Point (AP) & Station (STA)
IP Configuration	DHCP Server (AP, 1 client), DHCP Client, Static IP (STA)
Service	TCP, Modbus TCP
LED Indicators	
Power/Status	One 2 colors LED, Blue for System status, Purple(Blue+Red)for Connective status/Locator
Isolation	
Intra-module Isolation, Field-to-Logic	3000 Vdc
Protection	
ESD (IEC 61000-4-2)	±8 kV Air for Random Point
EFT (IEC 61000-4-4)	±2 kV for Power
Waterproof(IEC 60529)	IP54 (Panel Mount Upright Position)
Power Requirements	
Powered from Connector	9 ~ 28 VDC with Reverse Protection(Vin to GND)
Consumption	0.7 W Standby.
Mechanical	
Dimensions (W x L x H)	72 mm x 72 mm x 22 mm
Installation	Panel Mount/Wall Mount/DIN-Rail Mounting
Environment	
Operating Temperature	-20 ~ +75°C
Storage Temperature	-30 ~ +85°C
Humidity	10 ~ 85% RH, Non-condensing

Features

- Wi-Fi communication MP3 alarm controller.
- Both Access Point (AP) & Station (STA) mode support
- PC utility, Android APP
- MODBUS TCP monitoring support
- Wide power supply range
- Wide operating temperature range
- Photo couple input, Relay output
- MP3 Audio Output, external Line out
- Digital Volume control
- 8 Alarm mode support
- 6 Single channel or 31 Binary + 1 single channel support



Applications

- Building Automation
- Security Automation
- Machine Automation
- Factory Automation
- Testing Equipment
- Guest/Visitor Bell
- Fire Alarm System

Software Utility

OS	Software
Windows	Utility
Android	APP

I/O Specifications

Digital Input	
Channels	6
Input Type	Dry Contact: Sink
Dry Contact Level	Off Voltage Level: Open On Voltage Level: Close to GND
Photo-Isolation	3750 VDC
Input Condition	Pulse Width must > 150mSec or more
Digital Output	
Channels	1
Output Type	Form A Relay
Contact Rating	DC 50V/100mA

Audio & Storage

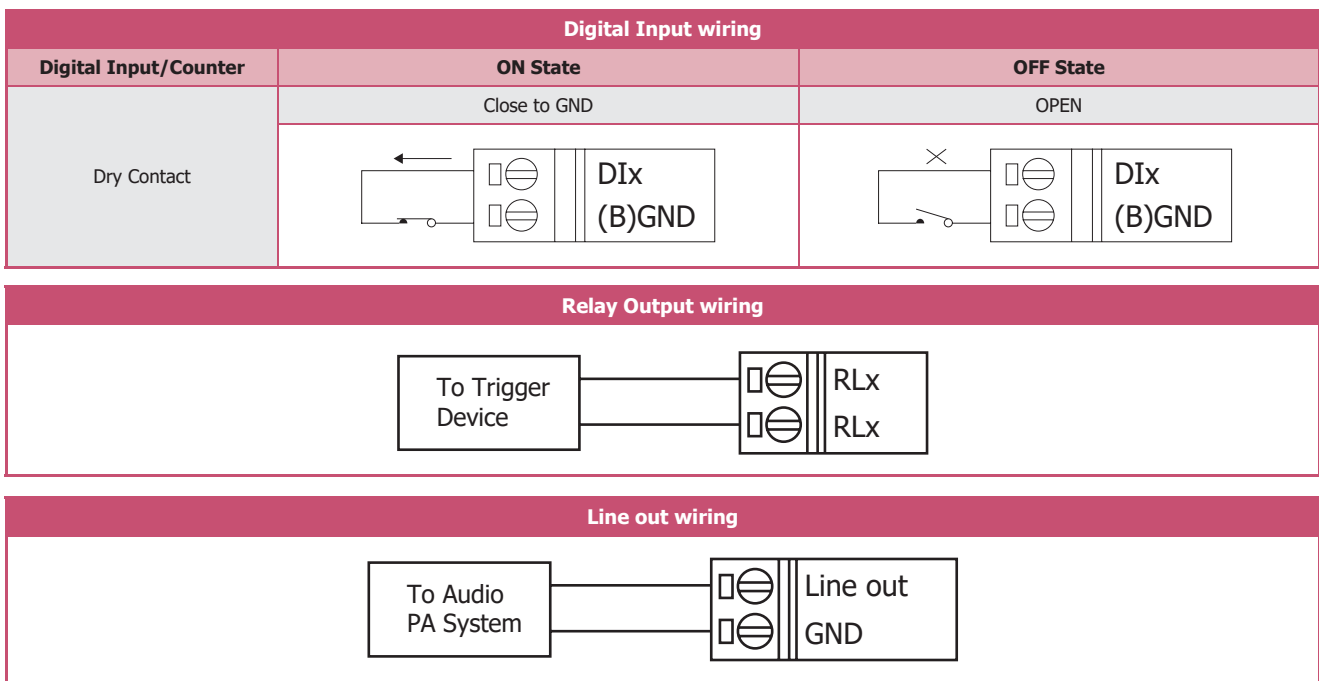
Audio	
Sound Pressure Level	99dB@1KHz/1meter
Volume Control	Digital Volume Control
Number of File	64(Max)
Audio File Format	MPEG1-Audio Layer III (MP3)
Sample Rate	24/44.1(prefer)/48 KHz
Bit Rate	32 64 96 128(prefer) 160 192 kbit/s
Audio Startup Time	< 150ms
Audio Output	3W(Max)
Line out Impedance	1KΩ
Storage	
Audio Files Locate	Micro SD(T-Flash) up to 32GB, bundle 4GB
Storage File System	Fat16/32
File Transfer	PC Utility through Wi-Fi

Pin Assignments

Terminal NO	Pin Name	Wire Color
1	DI1	Brown
2	DI2	Red
3	DI3	Orange
4	DI4	Yellow
5	DI5	Green
6	DI6	Blue
7	DI.GND	Gray
8	Vin	Red
9	Vin	Red
10	GND	Black
11	GND	Black
12	Line Out	Purple
13	RL	White
14	RL	White



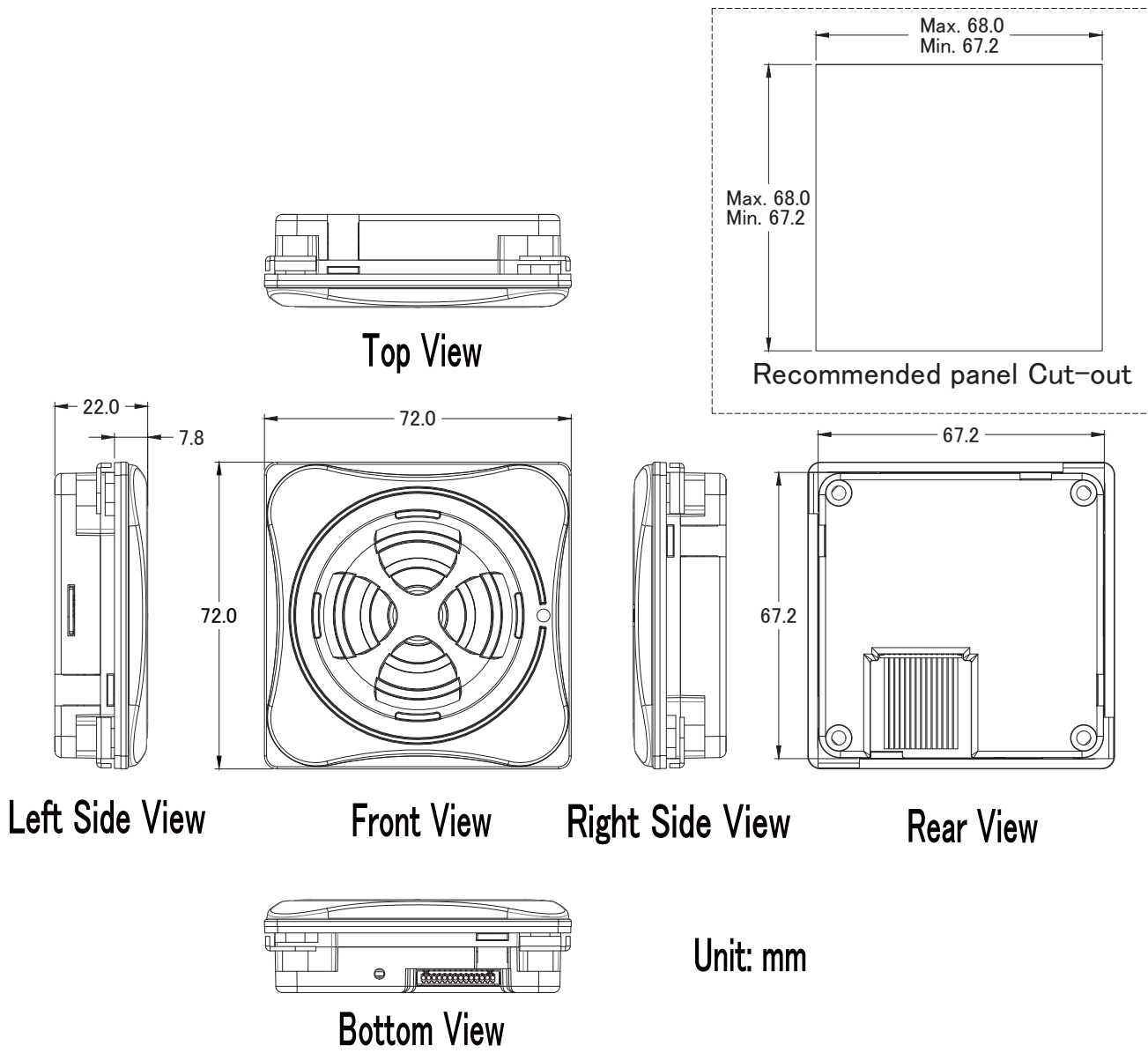
Wire Connections



Device Photo



Dimensions (Units: mm)



Ordering Information

ALM-06-WF CR	6-channel Isolated Digital Input, 1-channel Relay Output, MP3 Alarm Controller (RoHS)
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