



Features

- ▶ Microprocessor Controlled
- ▶ Selectable Degrade Mode Operation
- ▶ Service Mode Option
- ▶ All Wiring Power Limited
- ▶ Zone Activation LEDs
- ▶ Space Saving Design
- ▶ 45 Watt Amplifier @ 70.7VRMS
- ▶ Two Speaker Notification Appliance Circuits (NAC)
 - Style Y (Class B) or Style Z (Class A) Wiring
 - Each Circuit Can Carry the Full 45W Output Power
- ▶ Two Signal Notification Appliance Circuits (NAC)
 - Style Y (Class B) or Style Z (Class A) Wiring
 - 1.5A per Circuit Rating
 - Supports Synchronization

Application

The ASM-7 is used to supervise and control speakers and polarized 24VDC signaling appliances such as horns and bells.

Installation

The ASM-7 module can be installed in the primary or backup slots of the DAB-7 Motherboard. Each motherboard is software programmable to allow up to 4 primary and 4 backup ASM-7 modules.

Description

The ASM-7 Audio Signal Module combines a 45 Watt amplifier, 2 speaker and 2 signal notification appliance circuits (NAC) in one module.

The integrated amplifier is fully supervised and protected against overloads. The signal source for the amplifier can be selected by input/output logic equations that are evaluated by the COM-2 Communications Card in the DAB-7 Motherboard. The DAB-7 Motherboard supports ASM-7 module configurations that provide for a one-to-one backup scheme as well as a one-to-many backup scheme. This is accomplished by installing redundant ASM-7 modules in appropriate backup slots in the motherboard. In the event of a tone generator failure of the AMT-7 in the DAB-7 Motherboard, the ASM-7 will generate a temporal 3 evacuation tone. This tone will then be enabled to the speaker circuits when they are activated.

The two ASM-7 speaker NAC's can be wired as Style Y (Class B) or Style Z (Class A). The speaker circuits can be connected to the integral amplifier of the ASM-7 or to the backup amplifier in the motherboard. Each circuit is rated at 45W @ 70.7VRMS. The entire capacity of the amplifier can be split in any ratio between the two speaker circuits.

The two ASM-7 signal NAC's can also be wired as Style Y (Class B) or Style Z (Class A). Each circuit is rated at 24VDC @ 1.5A. The signal circuits are compatible with any UL listed 24VDC polarized appliance device such as a strobe light, bell or horn. Device synchronization is supported with approved signaling appliances.

The ASM-7 is microprocessor controlled by the COM-2 Communication Card in the DAB-7 motherboard. The ASM-7 receives commands and indicates its zone status to the COM-2. In the event of a microprocessor failure on the Communications Card, the ASM-7 operates in a degrade mode of operation. If selected, speaker and signal circuits can activate when an input to the motherboard goes into alarm. Additionally, the amplifier generates an appropriate audio signal. A Service Mode features allows testing of the ASM-7 module without activating the circuit outputs.

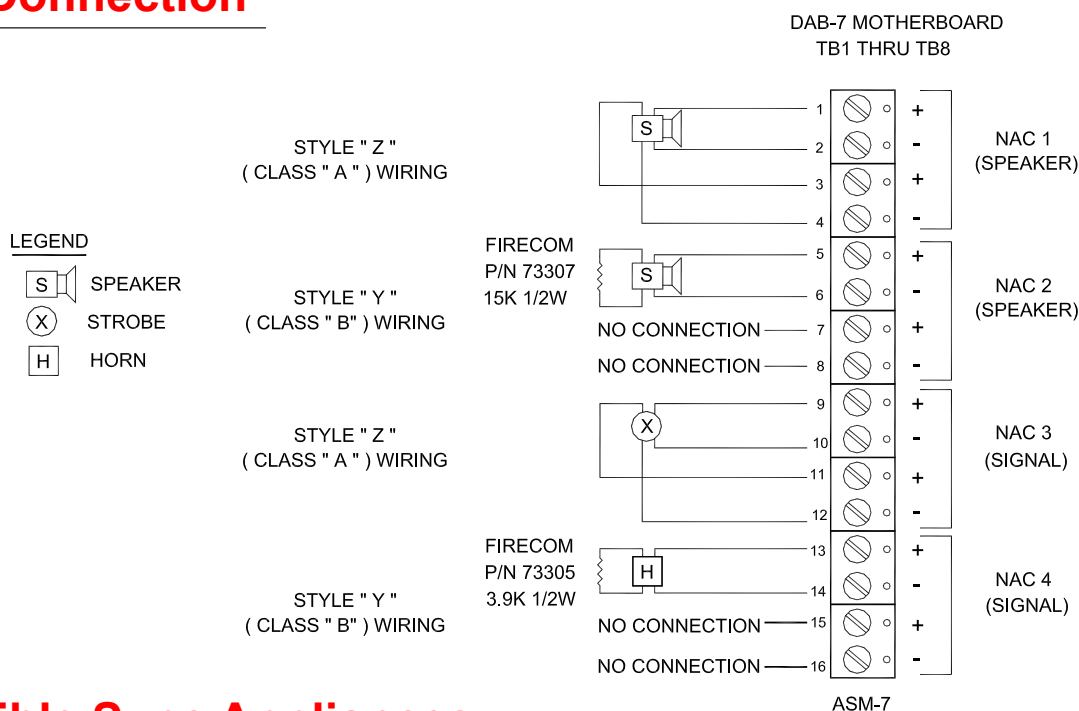
The ASM-7 module can be installed in the primary or backup positions of the DAB-7 Motherboard. This allows a backup amplifier to be switched in place of a failed unit.



Engineering Specifications

ASM-7 Audio/Signal Module shall contain a 45 Watt amplifier, 2 speaker and 2 signaling Notification Appliance Circuits (NAC). All speaker & signaling circuits shall support Style Y (Class B) and Style Z (Class A) wiring configurations. Each speaker circuit shall be rated at 45W @70.7VRMS. The entire capacity of the amplifier shall be capable of being split in any ratio between the two speaker circuits. Each signaling circuit shall be rated at 24VDC @ 1.5A and be compatible with 24VDC UL listed polarized appliance devices. Device synchronization shall be supported with approved signaling appliances. Each motherboard shall allow up to 4 Primary and 4 Backup ASM-7 modules. In the event of a microprocessor failure, the ASM-7 shall contain degrade mode jumpers for each zone to support circuit activation when an alarm condition develops.

Wiring Connection



Compatible Sync Appliances

Model No.	Description
Series FAH/FAH-WP, FNH	Audible Horn
Series FMT with Strobe	Multitone Horn with Sync Strobes
Series FE70/90 with Strobe	FE Speakers with Sync Strobe
Series FET70/90/1080/1081 with Strobe	FET Speakers with Sync Strobe
Series FRSS/FRSSP Strobes	Remote Sync Strobes
Series FCH70 Strobes	Chimes with Sync Strobes
Series FAS, FNS	Audible Horn with Sync Strobes

Ordering Information

Model No.	Part No.	Description
ASM-7	73273	Audio/Signal Module

Electrical Specifications

Operating Current Supervisory	80mA
Amplifier Operating Current Alarm	3A
Speaker Zone Rating	45Watts @ 70.7VRMS
Signal Zone Rating	24VDC @ 1.5A
Maximum NAC Loop Capacitance	10 Microfarads
Maximum NAC Loop Resistance	10 Ohms
Operating Temperature	0°C to 49°C
Operating Relative Humidity Range	0% to 93% @ 32°C

It is our intention to keep the product information up to date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information contact: FIRECOM, INC.

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