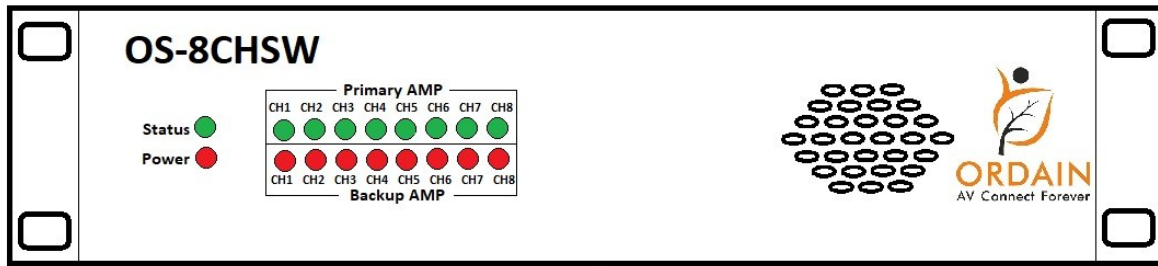


Backup Amplifier Switcher



Front View

The OS-8CHSW Amplifier Switcher gives end users of public address systems confidence that their system is operational. OS-8CHSW Amplifier Switcher has 8 Primary amplifier inputs (which connect to the amplifier outputs), 8 backup amplifier inputs (which connects to the another amplifier outputs), and 8 Speaker outputs. The OS-8CHSW can be connected to the Hi-Z output (70V/100V) of amplifier and capable of handling up to 30A AT 240V continuous for each channel

In the event that a failed channel is detected, The unit can switch the failed channel to an idle backup channel. Once the primary amplifier channel is back online, the unit will switch the backup channel back to the primary channel. All switch operations will be reported to (GPIO) general purpose Input and Outputs Ports

The OS-8CHSW hardware supports backup ratios ranging from 8:1 to 1:1; A series of programmable GPIO's has been developed on the Linux based platform to connect and control the OS-8CHSW.

A total of 8 GPIO ports and Ethernet connector is provided for additional configuration and controls.

Features

- Monitoring up to 8 amplifier channels in real time for speaker outages and channel/amplifier failures
- 8 primary amplifier inputs, 8 backup amplifier inputs and 8 Speaker outputs, 8 GPIO and Ethernet Control Port.
- Utilizing any primary to backup amplifier ratio from 8:1 to 1:1
- Switching a failed primary channel to idle backup channel and switching back to resumed primary channel through the GPIO trigger(s)
- Two status indicators for each channel: Primary amplifier status indicator and backup amplifier status indicator
- Universal power supply

Front Panel Indicators

Power LED Indicator

The LED indicator illuminates Red to indicate that the unit is powered on, and Green to indicate that the status of unit is online.

Primary Input LED Indicators

There are 8 primary input LED indicators. The indicators at the top of the front panel illuminate in green to indicate that the primary amplifier inputs are activated.

Backup Input LED Indicators

There are 8 backup input LED indicators. The indicators at the bottom of the front panel illuminate in red to indicate that the backup amplifier inputs are activated to backup the respective channels

Model	OS-8CHSW
Product Category:	Backup Amplifier Switcher
Primary Input	8 CH Primary Amp Input
Backup Input	8 CH Backup Amp Input
Speaker Out	8 CH Speaker Signal Out
Led Indicator	Yes
Power Input	100 - 240VAC at 50 or 60Hz
GPIO Port	8
Ethernet	Ethernet Control Port



Rear Panel Connectors

AC Power Inlet

The power inlet can accept 100 - 240VAC at 50 or 60Hz.

Control Inputs and Outputs

The TTL level signals from fire alarm system or other sources can be received via the 9-pin control inputs. The information can be sent to the MCU to switch between primary or secondary inputs

Ethernet Connector

100BaseT ethernet connector provides the communication for the configuration and status of Unit

Primary Inputs/Primary Amplifier Connectors

The 2-pin Phoenix-type connector on the top of each connector block is for the connection to a primary amplifier. There are 8 primary amplifier inputs

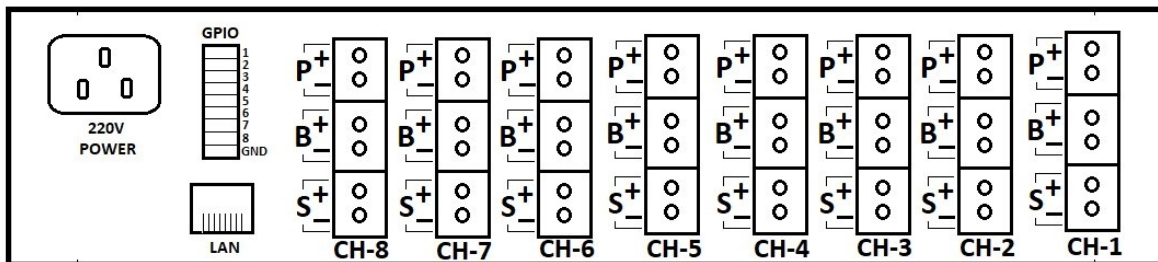
Backup Inputs/Backup Amplifier Connectors

The 2-pin Phoenix-type connector on the middle of each connector block is for the connection to a backup amplifier. There are 8 backup amplifier inputs, providing backup ratio from 1 to 8.

Main Outputs/Speaker Connectors

The 2-pin Phoenix-type connector on the bottom of each connector block is for the connection to a speaker. There are 8 speaker outputs

Hardware Overview



Back View



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