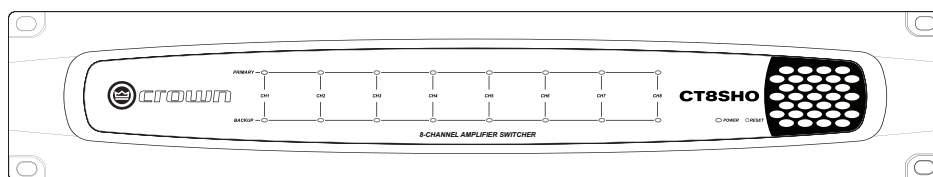


# CT8SHO

## 8-Channel Amplifier Switcher



The Crown® CT8SHO Amplifier Switcher gives end users of public address systems confidence that their system is operational and healthy. For the first time, the public address system industry has an alternative to proprietary amplifier switching technology at an affordable price.

The CT8SHO has 8 primary amplifier inputs (which connect to the amplifier outputs), 8 backup amplifier inputs (which connect to the amplifier outputs), and 8 speaker outputs. The CT8SHO can be connected to the Hi-Z output (70V/100V) of amplifier and capable of handling up to 160V<sub>RMS</sub>, 20A 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 errors and switch operations will be reported to the management software. The backup ratio of the CT8SHO can range from 8:1 to 1:1.

A series of programmable GPIO's can be used to connect the CT8SHO to external control devices. A total of 16 control inputs and 5 control outputs are built into the CT8SHO to provide enough control inputs for emergency use. In addition to the GPIO, an Ethernet connector is provided for additional configuration and control.

### 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 outputs
- Utilizing any primary to backup amplifier ratio from 8:1 to 1:1
- 16 control inputs and 5 control outputs
- Switching a failed primary channel to idle backup channel and switching back to resumed primary channel through the central management system interface
- Two status indicators for each channel: Primary amplifier status indicator and backup amplifier status indicator
- Error and switch operation reported to management software
- Universal power supply

### Front Panel Indicators

#### 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

The indicators at the bottom of the front panel can illuminate in red to indicate that the dedicated backup amplifiers are activated to back up the respective channels.

#### Power LED Indicator

The LED indicator illuminates in blue to indicate that the unit is powered on.

#### Vent Holes

Provide heat evacuation to cool the ambient temperature within the unit.

#### Reset Button

Press this button to reset the unit if the unit is running abnormally.

### Rear Panel Connectors

#### AC Power Inlet

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

#### Control Inputs and Outputs

The TTL level signals from emergency sources can input to the two 9-pin control inputs. The information can be sent to the central management system.

The central management system can control the outputs to other devices through the 6-pin control outputs.

#### Ethernet Connector

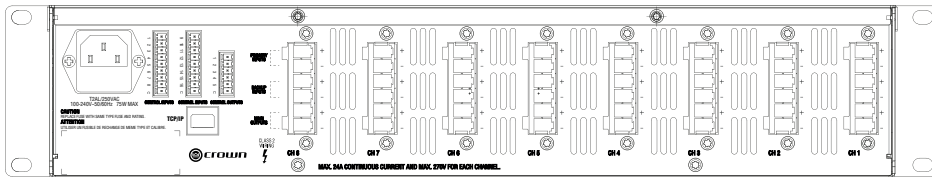
100 Base-T Ethernet connector provides the communication with the paging delivery controller.

#### Primary Inputs/Primary Amplifier Connectors

The 2 pins at the top of each 6-position detachable connector are for the connection to a primary amplifier. There are 8 primary amplifier inputs.

# CT8SHO

## Rear Panel



### Backup Inputs/Backup Amplifier Connectors

The 2 pins in the middle of each 6-position detachable connector are 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 pins at bottom of each 6-position detachable connector are for the connection to a speaker. There are 8 speaker outputs.

### Performance

**Power:** 100-240V AC 50/60Hz, 75W Max.

**Switching Capacity:** Max. 20A Continuous Current and Max. 160V<sub>RMS</sub> Continuous Voltage for Each Channel

### General Specifications:

**Dimensions:** 19" X 10" X 3.5" (482 mm X 256.2 mm X 88 mm)

**Operating Temperature:** 0°C to 35 °C at 95% relative humidity (non-condensing)

**Net Weight:** 10.8 lbs (4.9 Kg)

**Net Shipping Weight:** 13.1lbs (5.9 Kg)



**ATTENTION:** RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRI

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE

The symbols shown above are internationally accepted symbols that warn of potential hazards with electrical products. The lightning flash with arrowpoint in an equilateral triangle means that there are dangerous voltages present within the unit. The exclamation point in an equilateral triangle indicates that it is necessary for the user to refer to the owner's manual.

These symbols warn that there are no user serviceable parts inside the unit. Do not open the unit. Do not attempt to service the unit yourself. Refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer's warranty. Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately and take it to a dealer for service. Disconnect the unit during storms to prevent damage.

### Crown's Three-Year, No-Fault, Fully Transferable Warranty

Crown offers a Three-Year, No-Fault, Fully Transferable Warranty for every new Crown amplifier—an unsurpassed industry standard. With this unprecedented No-Fault protection, your new Crown amplifier is warranted to meet or exceed original specifications for the first three years of ownership. During this time, if your amplifier fails, or does not perform to original specifications, it will be repaired or replaced at our expense. About the only things not covered by this warranty are those losses normally covered by insurance and those caused by intentional abuse. And the coverage is transferable, should you sell your amplifier.

See your authorized Crown dealer for full warranty disclosure and details. For customers outside of the USA, please contact your authorized Crown distributor for warranty information or call 574-294-8200.



Crown International  
1718 W. Mishawaka Rd.  
Elkhart, IN 46517-9439  
TEL: 574-294-8200  
FAX: 574-294-8329  
www.crownaudio.com

Specifications subject to change without prior notice. Latest information available at [www.crownaudio.com](http://www.crownaudio.com).

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