

Multi-Switcher



The NCS-C240 is a “mini” console that is a well-suited, low cost solution for mobile command posts, small EOCs or any multiple radio communications environment. The unit provides a single point interface that allows the radio operator to control the transmit audio, receive audio, and the push-to-talk function of up to four radio transceivers. A single microphone or headset can be used to communicate through all radios eliminating the need for multiple microphones and reducing operator fatigue and confusion.

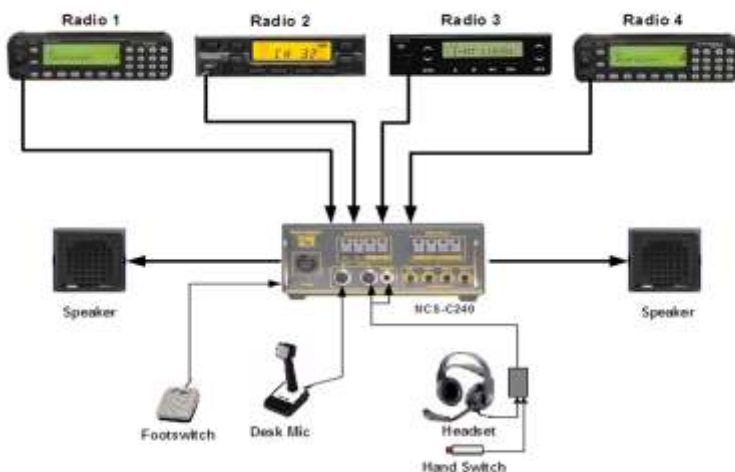
Microphone, headset or other audio device and the desired radio are selected using pushbutton switches with LED indicators providing a clear visual status of the selected audio source and selected radio. The selected radio’s receive audio is routed to external speakers or to the earpiece(s) of a headset. The unit also provides for switching two-channel receive audio for use with dual-band radios.

The NCS-C240 matches a wide range of audio device impedances and audio output levels allowing the use of most any type of microphone, headset, or other audio device. Additionally, the unit can be interfaced to most any HF, VHF and UHF base station, mobile or handheld commercial radios.

The unit provides four solid-state switched outputs that are activated by the Radio Select pushbuttons and can be used to control other external equipment or circuits.

An extremely flexible device, the NCS-C240 can be configured in multiple ways to accommodate individual customer preferences and requirements.

Typical Application



Features

- Switches 4 Audio Sources Between 4 Separate Radios
- Switch Seamlessly Between Radios Without Resetting Audio Levels
- Switches TX Audio, RX Audio and PTT
- Matches Most Any Microphone to Any Radio; Matches Impedance, Audio Level and Pin-out
- 2-Stage Amplifier with Adjustable Gain Ensures Adequate Audio Regardless of Microphone or Radio
- Switches External Speakers or Headset to Selected Radio
- Supports Dual-band Receive Audio
- RS-232 Interface for Computer Control or Linking to the NCS-C230 for Complete Radio Dispatch Control
- Ruggedized for the Mobile Environment

Applications

- Mobile Command Posts
- Emergency Operation Centers
- Multiple Radio Communication Centers
- ARES/RACES

NCS-C240 Multi-Switcher

Specifications*

General Specifications

Dimensions	3.3" H x 8.5" W x 6.2" D 8.4 cm x 21.6 cm x 15.8 cm
Weight	2.5 lbs (1.1 kg)
Temperature Range	0° to +50°C
Memory Protection	Radio Selection Switches preserved in non-volatile memory
Power Requirements	+12 to +15 VDC 200 mA Max.

Front Panel Connections

MIC 1 Connector	<ul style="list-style-type: none"> 8 pin Foster mic jack Input Impedance: 200 , 600 , HiZ, jumper selectable Mic Type: dynamic, ceramic, crystal, electret Pin-outs: All 8 pins jumper selectable for Audio, PTT, Ground, Preamp Voltage
MIC 2 Connector	<ul style="list-style-type: none"> 8 pin Foster mic jack Input Impedance: 200 , 600 , HiZ, jumper selectable Mic Type: dynamic, ceramic, crystal, electret Pin-outs: All 8 pins jumper selectable for Audio, PTT, Ground, Preamp Voltage
Headphone Connector	¼ in (6.4 mm) stereo phone jack

Front Panel Controls

Power On/Off	Paddle Switch with Yellow LED Indicator
Audio Source Select	Momentary Pushbutton Switch with Red LED Indicator
Radio Select (1-4)	Momentary Pushbutton Switch with Red LED Indicator
TX Audio Adjustment	Potentiometer level adjust

Rear Panel Connections

Aux 1 & 2 Inputs	<ul style="list-style-type: none"> 8-pin DIN Jacks Input Impedance: 200 , 600 , Hi-Z, jumper selectable Microphone Type: dynamic, ceramic, crystal, electret (jumper selectable) Pin Assignments: Audio, PTT, Ground, Preamp Voltage
Radio Interface Connectors (1-4)	<ul style="list-style-type: none"> 8-pin DIN Jacks Mic Audio Output, Common or isolated ground, Lo or Hi Z PTT Left & right Receive Audio Input 12 VDC supply for optional accessories
Left & Right Receive Audio Input	RCA Phono Jacks (4)
CW Keyer Output	RCA Phono Jacks (4)
CW Keyer Input	RCA Phono Jack
Foot/Hand Switch Input	RCA Phono Jack
Left & Right Speaker Outputs	RCA Phono Jacks (2)
Power Jack	Coaxial, 2.1 mm pin, 5.5 mm shell, center pin positive

Accessories

Radio Interface Cables

NCS provides custom cable assemblies for connecting each radio to the NCS-C240. Customer should specify radio model and cable length



NCS-6220 Footswitch

Made from non-corrosive reinforced polymeric material.
Dimensions: 4in x 3 7/16 in x 1 5/32 in



NCS-1512 Power Supply

12 VDC @300 mA



NCS-P2PH35-B (Kit of 4 cables)

Cable for connecting between radio speaker output and NCS-C240.



NCS-MTG3200 Mounting Bracket

Mounts to surface above or below unit

*Specifications are subject to change without notice

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