

**TWO RADIO INTEROP SWITCH
WITH AUDIO & PTT DELAY****Features**

- ⊗ Repeater for two radios with Audio & PTT Delay for 1 trunking radio (Optional NCS-C411 Audio Delay Module required for second trunked radio)
- ⊗ User selectable Audio & PTT Delay
- ⊗ Works with Trunked or Conventional radio systems
- ⊗ Digital, Analog radio compatible
- ⊗ COR or VOX operation independently configurable for each radio
- ⊗ Field configurable for initial setup
- ⊗ Output provided to record all audio
- ⊗ Intuitive Control Panel

The NCS-C151 is a two (2) radio repeater for cross band or in-band operation. (In-band operation requires the same RF proximity and Antenna considerations as any other in-band repeater). This flexible unit works with conventional, trunked and P25 radio systems. Rapid deployment, simple configuration, easy operation and minimal training required make this an ideal solution for occasional deployment in mutual aid situations as well as day-to-day interoperability operations. The unit contains an automatic gain control circuit so setting of each radio's receive audio is not required. Either radio can use COR of either polarity or VOX for the Busy signal. Interface cables are available for nearly any radio including PTT phones. The NCS-C151 has a small form factor and operates from 12-14VDC for use in any vehicle or fixed location.

The built-in delay circuit delays the transmitted audio and PTT release while the trunking system acquires a clear channel. This allows users in the field on conventional radios to transmit immediately after pressing the PTT without dropping syllables or words at the beginning of the transmission. Users in the field on trunking radios of course must wait for go ahead tones before transmitting.

Setup is simple and requires selecting the proper acquisition delay time for your trunking system. Available delay times are 0 ms, 50 ms, 100 ms, 200 ms, 400 ms, 800 ms, 1600 ms and 3200 ms. These values are switch selectable on the front of the unit.

Mounting brackets are provided that accommodate mounting to a surface above or below the module. Radio Interface Cables are sold separately.

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General Specifications (Preliminary)				
Dimensions	2.09"H x 4.06"W x 4.72"D 5.3cm x 10.3cm x 12.0cm			
Weight	TBD lb (kg)			
Temp Range	-20°C to + 65°C			
Power Requirements	9 to 16 VDC @ TBD mA max. Nominal 12VDC @ TBD mA			
	9VDC Battery:			
	Type	Total Capacity	Estimated Max Runtime Standby	Estimated Max Runtime 50% Duty Cycle
	Carbon-Zinc	400 mAh	TBD hours	TBD hours
	Alkaline	565 mAh	TBD hours	TBD hours
Lithium	1200 mAh	TBD hours	TBD hours	
Front Panel				
Power On/Off	Toggle Switch with Green LED Indicator plus Green LED "Power On" for Delay Circuit			
Indicators	Green LED "Busy" Indicator and Red LED "Transmit" Indicator for each Radio			
Delay Set	Adjustable pot for fixed interval delay settings from 0 ms to 3200 ms			
Rear Panel				
Radio IF Connectors RAD1, RAD2	RJ-45 Modular Jack			
AUX	RJ-45 Modular Jack			
DC Power	AMP/Tyco 2 Cond, Rt Angle			
Signal Levels				
COR from Radio	COR + → Active High COR - → Active Low Low = < 1.0VDC; High >2.0VDC			
PTT to Radio	Active Low, <.5 Ohm @ 1A, Max Rating 1.5A, 100V			
TX Disable RAD1, RAD2	Active Low: <1.0VDC, Max Rating 20VDC			
TX Audio	Adjustable, 0 → 2.5Vpp			
RX Audio	Speaker or Line Out from Radio, 1mVpp → 5Vpp			

Accessory Kit

Item #	Description	QTY
1	10' DC Power Cable	1
2	Extra Housing Screws	4
3	Mounting Feet	4
4	Mounting Bracket (x2) Kit	1