

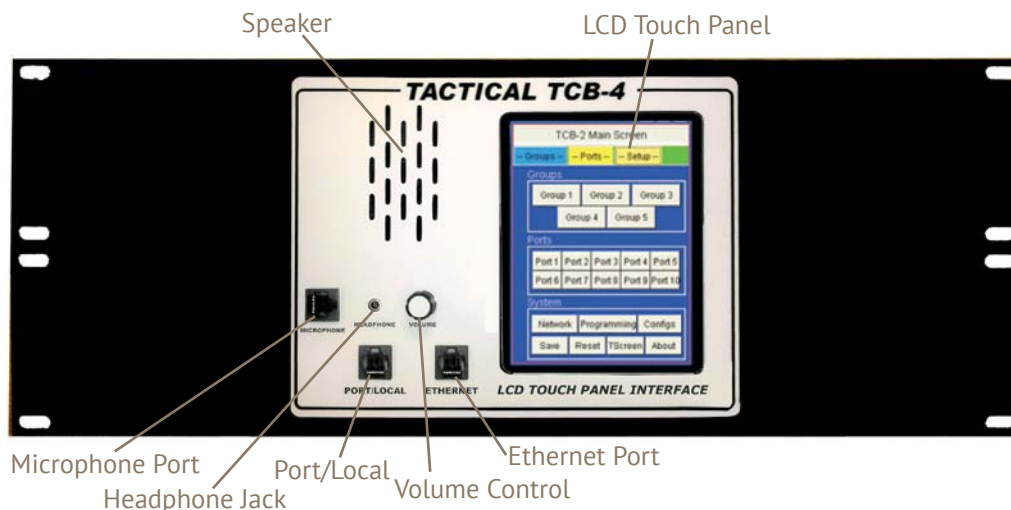
*Ideal choice for Public Safety Field.
Unlimited applications.
Affordable price.*

TCB-4 Rack

The Tactical Communications Bridge-4 Rack provides a solution to your communication interoperability for systems with up to 8 radios in a rack mounted form-factor. The TCB-4 offers the flexibility of portability and set up for easy field configuration and quick field servicing. Radio interfacing is accomplished using the built-in radio settings database. Utilizing large 5.8" color LCD touch panel display, users can monitor a port's activity input data and parameters without the need for a computer. The TCB-4 is an ideal interface between Analog and Digital trunked radio systems. Operators utilizing iDen PTT phones can easily connect the phone with other conventional or trunking radio systems utilizing the available radio interface cables.

TCB-4 Rack Details:

- ▶ Powerful DSP based digital audio interface.
- ▶ Color LCD Touch Screen allows field configuration, port monitoring and radio adjustment control
- ▶ Adjustable VOX detector Non-VOX based COR inputs
- ▶ Supports Analog, Digital and cellular radios
- ▶ Modular design with support for up to 10 radios allows custom configuration and quick field servicing
- ▶ Support for several cellular and PTT style mobile phones
- ▶ Built-In Digital Audio Delay minimizes Trunking receiver clipping
- ▶ Front panel / DTMF control to change operational modes
- ▶ Dual Telephone module supports Pots/2/4 wire interface (option)
- ▶ 10 W Speaker / microphone feature supports local dispatch operator position
- ▶ Large assortment of radio interface cables available for both handheld/mobile radios
- ▶ Ethernet Interface for remote control operation
- ▶ Operates from +12VDC (AC Adapter Included)
- ▶ Priced to meet your budget



TCB-4 Back



TCB-4 Rack

Side View Rack



TCB-4 Rack Specifications

POWER	
Voltage	11V .. 18V DC / 1200mA DC @ +12V/DC
Current	2 pin Anderson Power Pole Connector
Temperature	-4° F to 158° F (-20° C to 70° C)
SIZE	
Depth	12.0 Inches (304.8 mm)
Width	19 Inches (482.6 mm)
Height	5.250 Inches (133.4 mm)
Weight	12.0 Lbs (5.4 kg) <i>(with carrying handle)</i>
Radio Ports	10 radio ports, RJ-45 connector (Balanced Input / Output, COR, CTCSS and VOX). Opto-Isolated COR / CTCSS inputs
AUDIO CHARACTERISTICS	
INPUT	
Level	150mV p-p .. 8V p-p, 96dB (16 bit digital conversion ADC)
Range	> 50K ohms, AC Coupled
Response	2Hz - 3.5 KHz (-3dB point)
OUTPUT	
Level	0V p-p .. 4.30V p-p, 96dB (16 bit ADC)
Range	600 ohms, AC Coupled
Response	15Hz - 3.5 KHz (-3dB Point), (600 Ohm Load)
Dispatch Local Speaker	2"x4", 10 watts nominal, 15 watts max, 1/8" stereo headphone jack
Microphone	RJ-45 microphone option <i>(Microphone Included)</i>
I/O CHARACTERISTICS	
COR and CTCSS Inputs	0V - 48V, Optical Isolated with a 4.7K ohm load. Programmable active high/low condition
Access Modes	VOX (Activates on audio), COR, CTCSS, COR and CTCSS, COR or CTCSS
PTT Output	0V - 200V, 2 Amp, Opto-Isolated FET (RJ-45)
Optional I/O Boards	Contact Link Communications, Inc for you analog/digital I/O requirements
DIGITAL CHARACTERISTICS	
DSP Processor /Firmware	100 MIPS floating point Analog Devices DSP radio card processor. 66 MIPS Motorola system control uProcessor.
Audio CODEC	16 Bit @ 16 KHz sample rate, 8 KHz input/output bandwidth
Liquid Crystal Display (LCD)	5.6" 320 x 240 Color TFT Graphical LCD with integrated Touch Screen. LCD Backlight either ON, OFF or User Adjustable Timer
RS-232 Ethernet Port	RS-232 port up to 115 K baud. 10/100 Ethernet port. Windows™ Remote Control Software GUI included
Voice Over Internet Protocol VoIP	16 Bit @ 16 KHz PCM (TCB-2 to TCB-2 Connections) & (TCB-2 to Windows™ GUI Interface)
OPERATING MODES	
Conventional, Trunked, Duplex	Half /Full duplex radios. Duplex repeater mode enables on-site repeater operation from a TCB-4 single radio port.

AUDIO DELAY DESCRIPTION

Fixed Each radio ports receiver supports a digital audio delay up to 5.0 sec., adjustable in 0.1 sec. increments

DATABASE DESCRIPTION

Radio The TCB-4 contains a radio database that has the set-up information for up to 50 radio types. The user can simply select the type of radio connected to each radio port. Once selected, the receiver and transmitter setting will be automatically recalled for the selected radio. No adjustments should be needed when setting up a radio. The radio technician can also edit the radio's settings to exactly match the connected radio. If a radio is not found in the radio database, the radio technician can develop their own profiles using the radio set-up utility.

OPTIONS AVAILABLE

Radio Cables	Most handheld / mobile radios are supported and more are added weekly. Custom cables are available for most radios that are listed in radio database.
Add'l Radio Port Cards	The TCB-4 supports 10 radio interfaces. It comes with 3 interface cards, 2 radio ports/card.
Telephone Interface(TIM)	The TCB-4 TIM supports two analog telephone lines. Features on the telephone similar to the radio ports.
E&M Type Interfaces	The TCB-4 supports several E&M interfaces utilizing special interface cables.
Nextel™ Phone interface	The Nextel™ phone interface is housed in a 2U (3 1/2") rack mount shelf and powers/charges the phone during operation.



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