

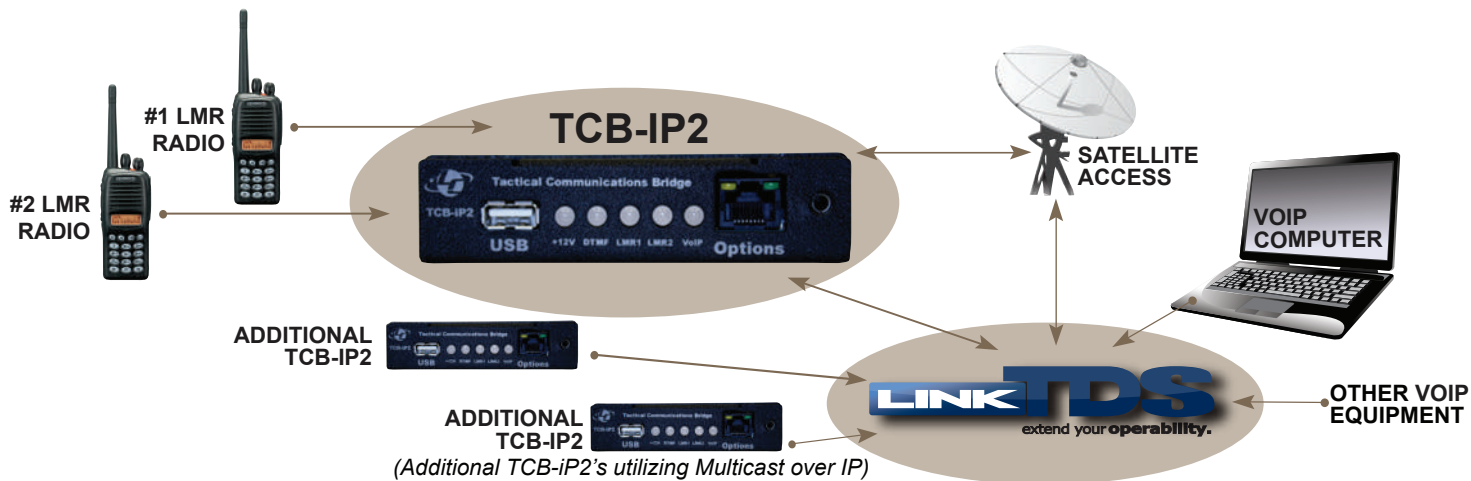
Powerful and Compact
 LMR to IP Gateway
 LMR to Multicast
 LMR to SIP

TCB-IP2

The TCB-IP2 makes it easy to interface two radio/cell phone devices with integrated VoIP.

VoIP modes include SIP, RTP, Multicast and Unicast operation. Access, interconnect & operate two radios from a Windows™ computer. Talk with Land Mobile Radios & other interoperability systems. Easily control multiple iP2 systems with simple click of the mouse. Ideal for small deployments but expandable for an unlimited number of radio ports interfacing over IP. Supports optional LinkTDS dispatch software which provides a dispatch center or a large network managed solution. Rack mount kit supporting 4 modules available. Ideal for small deployments but expandable for an unlimited number of radio ports interfacing over IP.

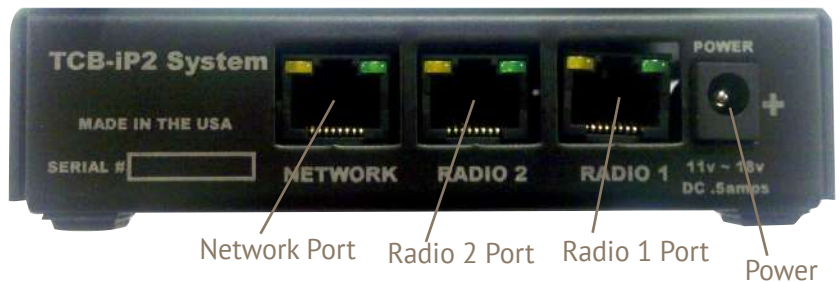
- ▶ Powerful 600 MIPS Digital Signal Processed (DSP) based operation.
- ▶ Use over IP with the Integrated VoIP & network management software.
- ▶ User adjustable Digital Audio Delay, up to 4 seconds per port.
- ▶ Digital Spooling. Access to satellite & trunking radio systems, no audio loss.
- ▶ Full computer control and operation with management & duplex streaming from Windows™ GUI software.





TCB-IP2

TCB-IP2 FRONT



TCB-IP2 BACK

TCB-IP2 SPECIFICATIONS

POWER & SIZE

Voltage / Current / Temperature

Single Unit
Voltage 11V .. 16V DC
Current 150mA DC @ +12V/DC
Temperature -4° F to 140° F (-20° C to 60° C)

Quad Unit
Voltage 11V .. 60V DC (optional)
Current 600mA DC @ +12V/DC
Temperature -4° F to 140° F (-20° C to 60° C)

Size
Single Unit:
Width 5.3 inches (134.6 mm)
Depth 6.175 inches (155.6 mm)
Height 1.165 inches (29.6 mm)
Weight 7.5 ounces (0.22 kg)

1U Quad Unit:
Width 19 inches (482.6 mm)
Depth 8.5 inches (215.9 mm)
Height 1.750 inches (44.4 mm)
Weight 4.3 Pounds (2 kg)

AUDIO CHARACTERISTICS

Input Level 80mV p-p .. 9V p-p for 40%
Range 96dB (16 bit digital conversion ADC) >50K ohms,
Response: AC Coupled, 2Hz - 3.5 KHz (-3dB point).
Output Level 0V p-p .. 5V p-p
Range 96dB (16 bit ADC), 600 ohms
Response: C Coupled, 15Hz - 3.5 KHz (-3dB Point), (600 Ohm Load)

COR & VOX Inputs: 0V - 48V, Optical Isolated w/ a 4.7K ohm load.
Programmable active high/low condition.

Access Modes: VOX (Activates on audio), Hardware line from receiver detect (COR), Data Present detector (VoIP), */# control from DTMF.

PTT Output: 0V - 200V, 2 Amp, Opto-Isolated FET (RJ-45)

DIGITAL CHARACTERISTICS

DSP Processor 600 MIPS fixed point Analog Devices DSP processor.
Firmware: Embedded Linux OS.
Audio CODEC : 24 Bit @ 16 KHz sample rate, 8 KHz input/output bandwidth.
RS-232 RS-232 port up to 115 K baud
Ethernet Port: 10/100 Ethernet port. Windows™ Remote Control Software GUI included.
Voice Over Internet Protocol (VoIP): 16 Bit @ 16 KHz PCM, g.711 RTP & RTP Multicast. SIP: g.711, SPEAKS, ADPCM, g.729a (available) support.

I/O CHARACTERISTICS

RJ-45 LMR Radio Connectors

Single Unit: 2 LMR radios can be connected to each TCB-iP2 unit. Connects external half or full duplex LMR radio using radio cables available from Link Communications.
Quad Unit: 8 LMR radios can be connected to the quad TCB-iP2 unit. Connects external half or full duplex LMR radio using radio cables available from Link Communications.

RJ-45 Ethernet Connector -

Single Unit Single unit RJ-45 filtered connector provided for connection to Ethernet network.
Quad Unit: Quad unit contains internal five port switch that combines four modules into a single jack.

RJ-11 POTS Connectors

Four RJ-11 connectors that are designed to support external FXS & FXO signals to optional modules. The connectors are not connected to any terminations unless the optional card(s) are installed.

OPERATING MODES

Conventional, Trunked, Duplex: Half /Full duplex radios. Duplex repeater mode enables on-site repeater operation from a single radio port.

AUDIO DELAY DESCRIPTION

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

DATABASE DESCRIPTION

Radio Database: Radio database w/ set-up info. for up to 50 radio types. Select type of radio connected to each radio port. Then receiver & transmitter setting automatically recalled for selected radio. No adjustments needed. Tech can edit radio's settings to match connected radio. If radio isn't found in database, tech can develop own profiles using radio set-up utility.

OPTIONS AVAILABLE

Radio Cables: Most handheld / mobile radios are supported and more are added weekly. Custom cables available for most radios listed in radio database.



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