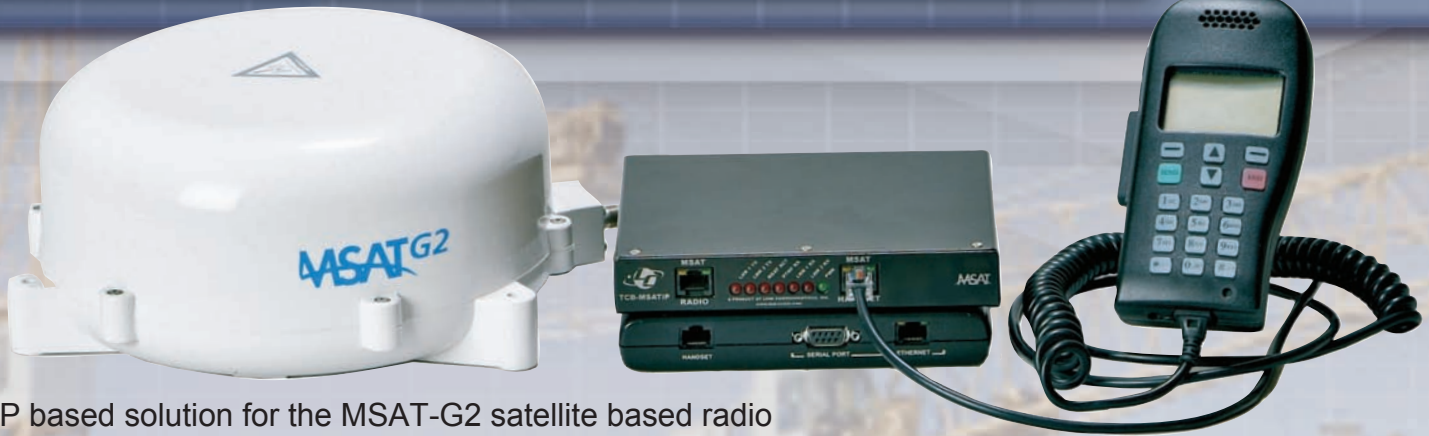


TCB-MSATiP-LMR



An IP based solution for the MSAT-G2 satellite based radio. Communicate over IP and as a bonus provides two Land Mobile Radio ports enabling radio & MSAT satellite PTT interoperability. Windows™ GUI software provides full computer control, operation, management & duplex streaming. User adjustable Digital Audio Delay, up to 5 seconds per port. Digital Spooling. Access to satellite & trunking radio systems with no audio loss. Powered from MSAT-G2 radio or +12VDC power cube (included).

POWER & SIZE

Voltage / Current / Temperature

11V .. 18V DC / 300mA DC @ +12V/DC. -4 ° F to 104 ° F (-20 ° C to 40 ° C). Voltage obtained from the MSAT-G2 radio when interfaced w/ the included 12" RJ-45 CAT-5 cable.

Size: 136.525mm deep x 168.275mm width x 25.4mm high.
: 5-3/8" deep x 6-5/8" width x 1" high.

Weight: 226 grams : 8 ounces.

I/O CHARACTERISTICS

RJ-45 MSAT Radio Connector

12" Jumper between MSAT-G2 radio & TCB-MSATiP-LMR unit.

RJ-45 MSAT Handset Connector

Connects the MSAT-G2's handset to MSATiP-LMR for dual use between the handset & the TCB-MSATiP-LMR interface.

RJ-45 LMR Radio Connectors

Two LMR radios can be connected to TCB-MSATiP-LMR. Connects external half or full duplex LMR radio using radio cables.

AUDIO CHARACTERISTICS

Input Level / Range / Response

150mV p-p .. 8V p-p , 96dB (16 bit digital conversion ADC).
> 50K ohms, AC Coupled, 2Hz - 3.5 KHz (-3dB point).

Output Level / Range / Response

0V p-p .. 4.30V p-p, 96dB (16 bit ADC). 600 ohms, AC Coupled.
15Hz - 3.5 KHz (-3dB Point), (600 Ohm Load).

I/O CHARACTERISTICS

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).

PTT Output

0V - 200V, 2 Amp, Opto-Isolated FET (RJ-45).

DIGITAL CHARACTERISTICS

DSP Processor / Firmware

600 MIPS fixed point Analog Devices DSP processor.
Embedded Linux OS.

Audio CODEC

16 Bit @ 16 KHz sample rate, 8 KHz input/output bandwidth.

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, g.711 RTP & RTP Multicast. SIP support (contact Link Communications, Inc. for more info.)

OPERATING MODES

Conventional, Trunked, Duplex

Half /Full duplex radios. Duplex repeater mode enables on-site repeater operation from TCB-MSATiP-LMR 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. User selects the type of radio connected to each radio port. Then, receiver & transmitter setting is automatically recalled for selected radio. No adjustments needed when setting up a radio. Technician can edit the radio's settings to exactly match connected radio. If a 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 & more are added weekly. Custom cables are available for most radios listed in database. Contact us for pricing & availability cables & radios not listed.

