

TCB-MSATiP



Powerful communication system between MSAT-G2 satellite based radio and single or multiple G2 handsets and VoIP based communications over an IP network. Windows™ GUI software provides full computer control, operation, management & duplex streaming. Powerful 600 MIPS Digital Signal Processed (DSP) based operation with user adjustable Digital Audio Delay, up to 5 sec. per port. Powered from the MSAT-G2 radio or an external +12VDC power cube.

POWER & SIZE

Voltage / Current / Temperature

11V .. 18V DC / 300mA DC @ +12V/DC.

-4 o F to 104 o F (-20 o C to 40 o 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

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

RJ-45 MSAT Radio Connector

12" Jumper between the MSAT-G2 radio & TCB-MSATiP unit. **RJ-45**

MSAT Handset Connector

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

Access Modes

VOX (Activates on audio), Hardware line from receiver detect (COR)

PTT Output

Software based for the MSAT-G2 radio.

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.

OPERATING MODES

Conventional, Trunked, Duplex

Half /Full when operating in PTT mode, Full-Duplex in Telephone Mode. Always duplex on the VoIP feed.

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.



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