

Where the MSAT G2 and
the Telephone Meet...

MSAT-PSTN

Interface allows users to access MSAT voice and Push-to-Talk (PTT) functions via an analog telephone.

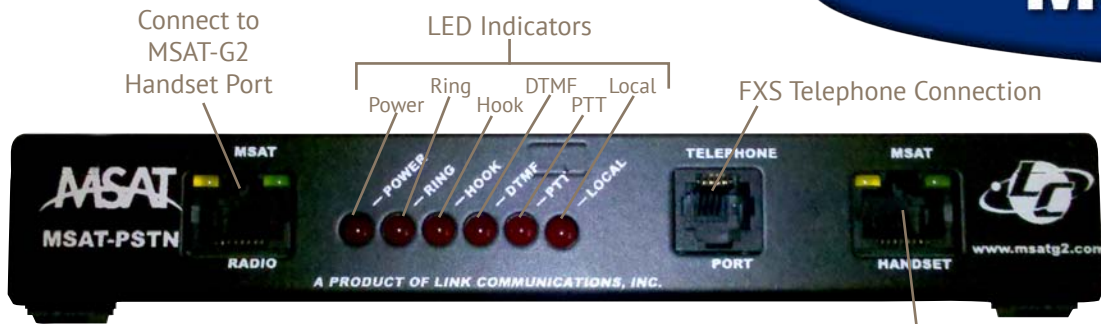
Combined with the MSAT-G2 radio, the MSAT-PSTN Interface is ideal for remote communications and business continuity. Operation: When connected to the MSAT-G2 radio, the MSAT-PSTN Interface provides traditional dialing capability, dial tone, and ring tones. It further augments the MSAT-G2 radio's effectiveness by allowing users to remotely initiate or receive voice calls utilizing a portable cordless telephone. Additionally, the MSAT-PSTN Interface enables Push-to-Talk (PTT) functionality using an analog telephone. Users can initiate/respond to PTT calls and toggle between talkgroups using specific telephone key sequence



MSAT-PSTN FEATURES:

- Analog telephone connection (RJ-11)
- Access to PTT functions via analog phone (*PTT, talkgroup toggling etc.*) PTT supported by pressing either a '*' to PTT the radio, or a '#' to return back to receive mode.
- Differential Ringing - Different ring tones identify different call types (*Telephone or PTT*)
- Answers in a specific number of rings & allows the user to command the radio from phone line.
- Bright LED display on front of the MSAT-PSTN aids in initial setup and provides real time feedback during operation.
- Power is provided by the MSAT-G2 on the radio end and +12V power is required on the handset end (*power module included*).
- Connect MSAT-G2 into a PBX for more flexible usage.
- The user can also change user talk groups from the phone DTMF pad.
- Operate in either Foreign eXchange Office (FXO) or Foreign eXchange Station (FXS) mode.
 - In FXO mode,
 - In FXO mode, when the radio goes active, it dials a telephone number in an effort to contact the user during activity.
 - In FXS mode, the MSAT-PSTN acts like an analog phone line allowing a standard analog telephone to be connected.
 - In either FXO or FXS mode, the MSAT-PSTN provides user with all the standard handset features the MSAT-G2 provides.
 - To use just pick up phone, listen for dial tone then use as normal phone.
 - To initiate a call, enter desired phone number and pressing the '*' (star) button. When call is complete, user either hangs up the phone or presses the '#' (number) digit.

MSAT-PSTN



FRONT PANEL:

- ▶ **MSAT Radio Port:** Connects to MSAT-G2 Transceiver Unit (TU)
- ▶ **Telephone Port:** RJ-11 Telephone connection
- ▶ **MSAT Handset Port:** MSAT-G2 handset connection (optional)

LED Indicators:

- ▶ **POWER:** Lights up when the unit is powered up. Unit receives power from the MSAT-G2 radio through the RJ-45 handset port.
- ▶ **RING:** Lights up when the phone rings (flickers with the ring cycle).
- ▶ **HOOK:** Lights up when the telephone is off-hook.
- ▶ **DTMF:** Lights up when the user presses a number/symbol on the telephone keypad.
- ▶ **PTT:** Lights up when the user initiates PTT or is the active PTT mode talker.
- ▶ **LOCAL:** Only lights up during software upgrades. Should be off during normal operations



BACK PANEL:

- ▶ **Optional +12VDC Port:** Optional power connection (2-pin)
- ▶ **Local/MSAT Toggle Switch:** Local mode only used for software upgrades
- ▶ **RS-232 Serial Port:** Used for software upgrades

MSAT-PSTN SPECIFICATIONS

POWER & TEMPERATURE

Voltage	11V, 18V DC
Current	200mA DC @ +12V/DC
Temperature	-4° F to 140° F (-20° C to 60° C) <i>Voltage obtained from MSAT-G2 radio when interfaced with included 12" RJ-45 CAT-5 cable.</i>

SIZE

Depth	5-3/8 inches (136.5 mm)
Width	6-5/8 inches (168.3 mm)
Height	1 inch (25.4 mm)
Weight	8 ounces (0.23 kg)

FXS SPECIFICATIONS

Ringing Capability	3.0 km with a REN loading of 3 5.0 km with a REN loading of 1
Ringer Equivalency (REN)	3
Drive Capability	3.0 km into 800ohm <i>(including phone)</i>

I/O CHARACTERISTICS

RJ-45 Radio Connector	12" Jumper between the MSAT-G2 radio & MSAT-PSTN unit
RJ-45 Handset Connector	Connects MSAT-G2's handset to PSTN for dual use between handset and MSAT-PSTN interface
RJ-11 FXS Connector	Connects a standard analog 2-wire telephone to MSAT-PSTN interface for FXS initiated calls



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