



MSAT-PSTN Telephone Interface

The MSAT-PSTN Telephone Interface is a robust voice product designed for use with the MSAT-G2 Mobile Satellite Radio.

Manufactured by Link Communications, the 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 sequences.

MSAT-PSTN Features

- Analog telephone connection (RJ-11)
- Access to PTT functions via analog phone (PTT, talkgroup toggling etc.)
- Differential Ringing - Different ring tones identify different call types (Telephone or PTT)
- Ringer Equivalency (REN) = 3
- Interface is powered by the MSAT-G2 radio's power source

Interface Description:

Front Panel:

- MSAT-G2 RJ-45 Port
- Telephone RJ-11 Port
- MSAT-G2 handset RJ-45 Port
- LED Indicators

Back Panel:

- Optional Power connection (2-pin)
- Serial Port DB-9F for firmware upgrades



MSAT-PSTN Interface

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MSAT-PSTN

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MSAT-PSTN Specifications

| | |
|---------------------|---|
| Power | Voltage/Current: 11V, 18V DC/200mA DC @ +12V/DC Temperature: -4°F (-20°C) to 104°F (40°C) Voltage obtained from the MSAT-G2 radio when interfaced with the included 12" RJ-45 CAT-5 cable |
| Dimensions | (d) 5 3/8" x (w) 6 5/8 x (h) 1" (d) 136.5 mm x (w) 168.2 mm x (h) 25.4 mm |
| Weight | 226 grams 8 ounces |
| I/O Characteristics | RJ-45 Radio Connector: 12" jumper between the MSAT-G2 radio and MSAT-PSTN unit RJ-45 Handset Connector: Connects the MSAT-G2's handset to the PSTN for dual use between the handset and the MSAT-PSTN interface RJ-11 FXS Connector: Connects a standard analog 2-wire telephone to the MSAT-PSTN interface for FXS initiated calls |
| FXS Specifications | Ringing Capability: 3.0 km with a REN loading of 3 Ringer Equivalency (REN): 3 Drive Capability: 3.0 km into 800 ohm (incl. telephone) |

Front Panel LED Indicators:

- PWR: 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 phone 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



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