Telephone Line Current Booster Circuit Assemblies



Features

- Provides 30 mA Current Boost for Analog, 2-wire Bridged, Ringing Telephone Lines
- Single-line AC Model
- 4 or 8-line AC or DC Models
- Multi-line Models Desktop or Rack-mount



Model 12600-002
Single Channel TLC
Booster Circuit Assembly



Model 12600-40X 4 or 8-Channel TLC Booster Circuit Assembly

Many of today's analog telephone devices are enhanced to provide a variety of features, most of which require higher line current levels, or are microprocessor controlled. Higher telephone line current means better performance and higher audio levels.

A typical analog PABX telephone line can normally range between 20 and 35 mA. Current drops resulting from telephone line quality and distance can cause a full feature telephone product to operate at lower than standard levels. For example, GAI-Tronics' RED ALERT® Emergency Telephones require a minimum operating loop current of 24 mA but their optimum operating levels will be obtained at 35 mA.

GAI-TRONICS Telephone Line Current (TLC) Booster Circuit is designed to augment available line current to an analog, 2-wire bridged, ringing telephone line by an additional 30 mA. This means that a telephone line with 20 mA of normal available line current can be boosted to 50 mA with the addition of a TLC Booster Circuit. Although the TLC Booster Circuit is designed to be installed anywhere along the telephone line, preferable installation would be at a main or intermediate distribution frame/location.

PABX line interface requirements are as follows:

Minimum loop current: 8 mA dc (normal, no LCBC connected) **Maximum loop current**: 40 mA dc (normal, no LCBC connected)

Ringer: Type B ringer

Note: Do not exceed 70 mA of loop current with the TLC Booster Circuit connected.

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Available Models

Model	Description
12600-002	Single-Channel TLC Booster Circuit Assembly, 120 V ac, 60 Hz
12600-401	4-Channel TLC Booster Circuit Assembly, 48 V dc
12600-402	8-Channel TLC Booster Circuit Assembly, 48 V dc
12600-403	4-Channel TLC Booster Circuit Assembly, 85-264 V ac, 50/60 Hz
12600-404	8-Channel TLC Booster Circuit Assembly, 85-264 V ac, 50/60 Hz

Specifications

Model 12600-002

Power supply	
Input voltage to plug-in power supply	120 V ac +10% @ 60 Hz
Input power to plug-in power supply	Off-hook: 6.0 W maximum; On-hook 4.0 W maximum
Dimensions	
Weight	

Model 12600-401 and 12600-402

Input voltage	
Dimensions (without mounting brackets)	$17.00 \times 9.00 \times 1.75$ inches (431.8 × 228.6 × 44.4 mm)
With Brackets	$19.00 \times 10.00 \times 1.75$ inches (482.6 × 254.0 × 44 mm)
Weight	8.5 lbs. maximum

Model 12600-403 and 12600-404

Input voltage	85–264 V ac @ 50/60 Hz
Dimensions (without mounting brackets)	$1.17.00 \times 9.00 \times 1.75$ inches (431.8 \times 228.6 \times 44.4 mm)
With Brackets	$19.00 \times 10.00 \times 1.75$ inches (482.6 × 254.0 × 44 mm)
Weight	8.5 lbs. maximum

Environmental

Operating temperature	40° C to +70°	C
Supplemental line current	30 mA dc +5 m	Α

PABX Interface Requirements

Minimum on-hook tip/ring voltage	
Minimum loop current	8 mA dc (LCBC disconnected)
Maximum recommended loop current	40 mA dc (LCBC disconnected)
Optional ringer requirements	Type B ringer

Notes

The supplemental line current has a negative temperature coefficient promoting temperature stability for both the TLC Booster Circuit and the telephone instrument connected to it.

Transient protection: Meets the requirements of FCC Part 68 Type A & B transient protection



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