

# Telephone Access Module

## Model TAMB



**Description** The Bogen TAM B Telephone Access Module is a unique, dual-purpose voice paging adapter designed as an interface from a telephone system to a paging system.

This versatile unit offers the capability of station port or trunk port operation, and is compatible with the full range of currently available telephone systems. Advanced design and Bogen dependability make the TAM B the perfect choice for simple or complex telephone paging applications.

A background music input (with RCA-type jack and screwdriver-adjustable volume control), which will accept a line level input from a background music source, is provided. The input permits use of background music with amplified speaker systems as well as with central paging amplifiers.

- Features**
- Loop start, ground start, and station port (90V ring up) compatibility
  - 600-ohm output
  - Pre-announce and confirmation tones (defeat-able)
  - Adjustable tone volume
  - Works with one-way and two-way (talk back) zones
  - Background music input with volume control
  - Suppresses background music during paging
  - Station access disconnect is dynamically controlled using a combination disconnect timer, and VOX disconnect timer or Calling Party Control (CPC) signal detection
  - Disconnect VOX timer is adjustable from 2 to 6 seconds of silence
  - Calling Party Control (CPC) signal from switch immediately disconnects station port
  - 24V or 48V operation (trunk port mode)
  - Wall-mount design
  - Easily accessible controls and switches
  - No power supply necessary when connected to a PABX station port or Centrex line
  - 1 normally open contact pair available for operating external equipment
  - Punch-block connections (type 66)
  - FCC Part 68 approved

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Specifications subject to change without notice.  
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Part No. 54-7783-05R2 Printed in U.S.A. 0211

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**Technical  
Specifications**

<b>Ringer Equivalence:</b>	1.2B
<b>Station Port Compatibility:</b>	Two-wire ring start
<b>Trunk Port Compatibility:</b>	Two-wire loop start or ground start
<b>Paging Frequency Response:</b>	200 – 8000 Hz, $\pm 1$ dB
<b>Input/Output Impedance:</b>	600-ohms, nominal
<b>Power Requirements:</b>	
<b>Station Port Access Mode:</b>	None
<b>Trunk Port Access Mode:</b>	24V DC @ 90 mA or 48V DC @ 105 mA
<b>Pre-announce/Confirmation Tones:</b>	800 Hz, $\pm 20\%$ , one-half second duration
<b>Default Disconnect Timer:</b>	6 to 35 seconds, adjustable
<b>VOX Disconnect Timer:</b>	2 to 6 seconds, adjustable
<b>Auxiliary Contact Rating:</b>	2A, 30V DC
<b>Operating Temperature Range:</b>	32° – 120°F
<b>Connection Method:</b>	10-pin 66-type punch block (requires 66-type punch-down tool)
<b>Finish:</b>	Black enamel with white lettering
<b>Dimensions:</b>	8-1/8" W x 4-1/2" H x 1-7/8" D
<b>Shipping Weight:</b>	2 lb.

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**Architect  
and Engineer  
Specifications**

The telephone-access voice-paging adapter shall be a Bogen Model TAMB capable of providing either trunk port or station port access to paging amplifier/amplified speakers, multi-zone paging adapter, or talk back amplifier/amplified speakers.

The adapter shall have station port compatibility, 2-wire analog with a ringer equivalence number of 1.2B, and trunk port compatibility with 2-wire loop start or ground start. The paging frequency response shall be 200 Hz to 8000 Hz,  $\pm 1$  dB, and the input/output impedance shall be 600-ohms, nominal.

When used in the station port access mode, the device shall be line-powered and shall not require an external power supply; when used in the trunk port access mode, it shall operate from 24V DC @ 90 mA, or 48V DC @ 105 mA. The unit shall be capable of generating an 800 Hz ( $\pm 20\%$ ), 1/2-second duration signal to be used as a pre-announce or confirmation tone; the tone level shall be controlled by a single screwdriver adjustment that shall be accessible without removing the cover.

When used in the station access mode, the device shall be capable of three methods of release following a page: (1) Loop Current Interruption, (2) Voice-Operated Disconnect, and (3) Default Disconnect Timer.

The loop current interruption detection circuit shall, if the particular line to which the device is connected issues a disconnect signal (a loss of loop current for longer than 30 milliseconds), recognize this signal and immediately disconnect the device from the line. The voice-operated disconnect circuit shall be enabled/disabled via mode switches or an external signal.

A default disconnect timer circuit shall set the maximum time allotment for paging and ensure that the unit will always disengage the line if the other disconnect circuits are inoperative. The default disconnect timer duration shall be adjustable from 6 to 35 seconds and the VOX disconnect timer duration shall be adjustable from 2 to 6 seconds. These controls shall be accessible without removal of the cover and they shall be screwdriver-adjustable.

When used in the trunk port access mode, the device shall automatically terminate paging access upon release of the trunk port.

An RCA-type jack shall be included to accept a line level input from a suitable background music source. A screwdriver-adjustable control shall be provided to set the background music volume.

One set of normally open contacts shall be provided for use with the ground start trunk port operation or for auxiliary equipment control. The contacts shall be rated at 30V DC, 2A.

The device shall be mounted in a steel enclosure and finished in black enamel with white lettering. It shall comply with Part 68 of FCC Rules and Regulations. The FCC Registration Number and Ringer Equivalence Number shall appear on the front panel.

The overall dimensions shall be 8-1/8" W x 4-1/2" H x 1-7/8" D. The shipping weight shall be 2 lb.

**BOGEN<sup>®</sup>**  
**COMMUNICATIONS, INC.**

50 Spring Street, Ramsey, NJ 07446  
201-934-8500 FAX: 201-934-9832  
www.bogen.com