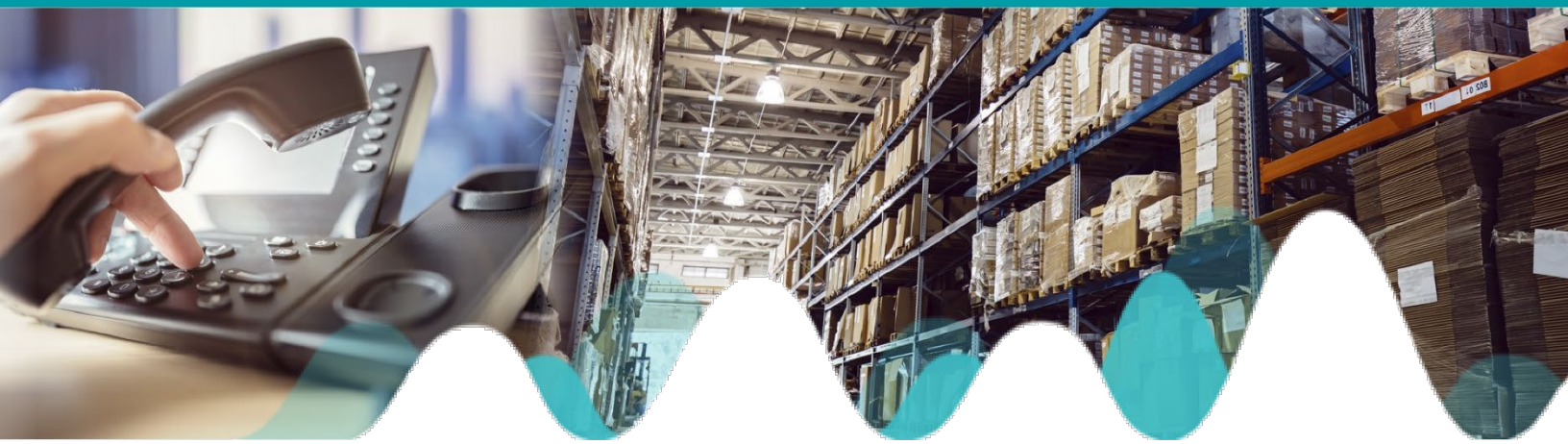


UTI1 and TAMB2/TAMB2PS Review

This document compares the features of the TAMB2 and UTI1 product series, and installation procedures of each. Essentially the UTI1 is equivalent to and in most ways more flexible than the TAMB2 models.

The UTI1 can be substituted for the TAMB2 in over 99% of all TAMB2 applications. Below are the typical installation diagrams for the TAMB2 and the equivalent version of the UTI1. These diagrams will make the transition from the TAMB2 to the UTI1 easier (see page 2 and 3).

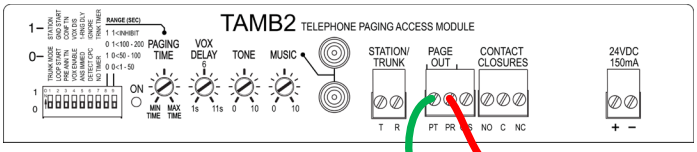
A feature comparison between the two products can be found on page 4.

Two differences between the products should be pointed out.

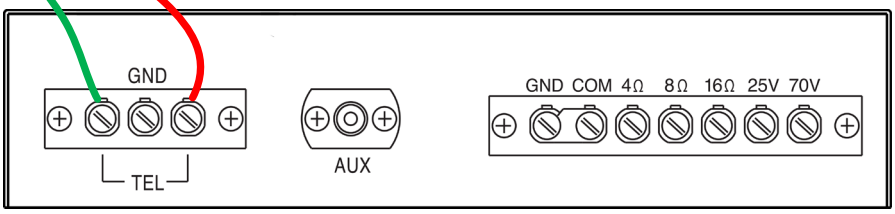
1. The TAMB2 allows bidirectional audio from a device to which it is connected. The UTI1 does not support bidirectional audio.
2. The few features of the TAMB2 are programmed with 9 DIP switches. The UTI1 is programmed using DTMF that will require a butt set or an analog phone for programming. UIT1 programming DTMF codes are at the end of this document on page 5.

TAMB2 - Connection to Paging Amplifier TEL Input

(Balanced Input Wiring)



The TAMB2 was designed to connect to a 600-ohm balanced TEL input. The amplifier's input sensitivity should be high enough that with a 200mV input signal, the amp will be able to produce its full rated output power.

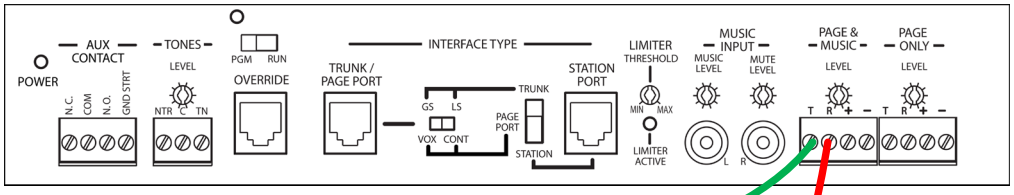


Amplifier

UTI1 - Connection to Paging Amplifier TEL Input

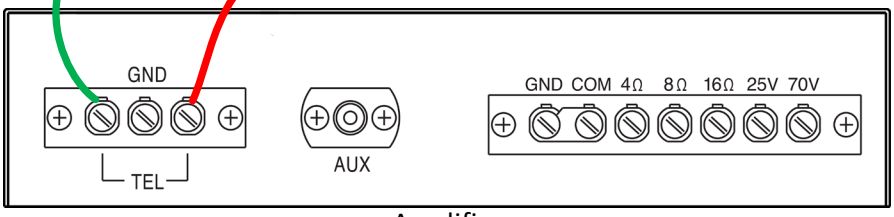
(Balanced Input Wiring)

UTI1



The UTI1 can be connected to a balanced TEL input. The UTI1's 8-ohm output should provide more than enough signal to an amplifier's TEL input. We recommend that you turn down the Level Control prior to testing so that you don't damage the amplifier.

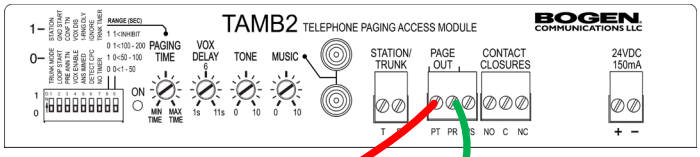
This example shows the PAGE & MUSIC output being used. The PAGE ONLY output can be used for an area in the building that you just want paging without music.



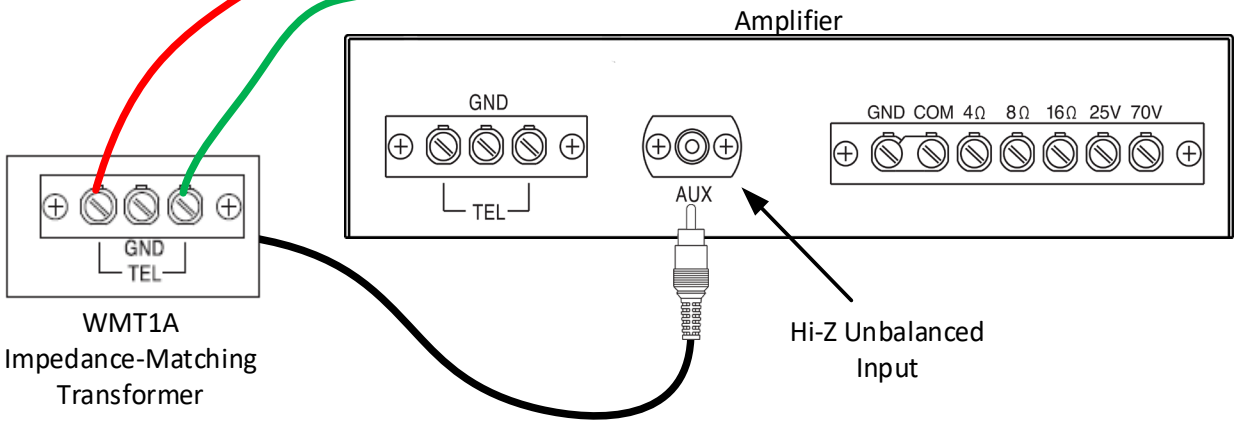
Amplifier

TAMB2 - Connection to Paging Amplifier AUX Input

(Unbalanced, Hi-Z Input Wiring)

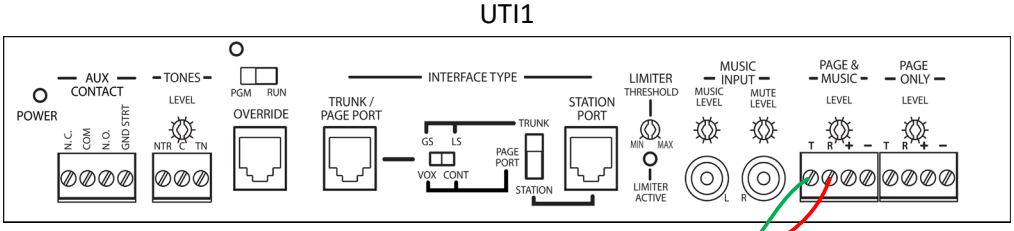


Wiring to an unbalanced Hi-Z or AUX input normally requires the use of a WMT1A transformer. The output levels of the TAMB2 generally cannot drive this type of input to full rated power since the AUX input is less sensitive than the specialized TEL inputs. The WMT1A provides about a 5X voltage increase in the amp's input.



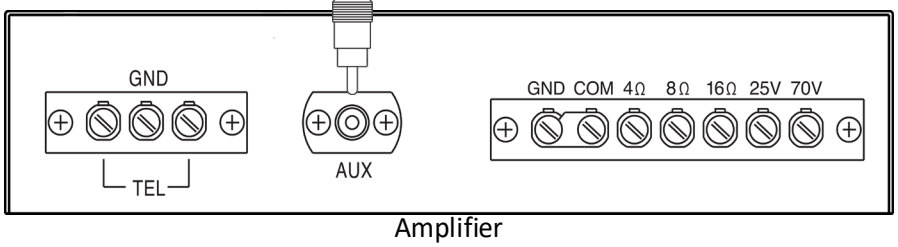
UTI1 - Connection to Paging Amplifier AUX Input

(Unbalanced, Hi-Z Input Wiring)



Wiring to an unbalanced Hi-Z or AUX input normally requires the use of a WMT1A transformer. The UTI1's 8-ohm output should provide more than enough signal to an amplifier's AUX input. We recommend that you turn down the Level Control prior to testing so that you don't damage the amplifier.

This example shows the PAGE & MUSIC output being used. The PAGE ONLY output can be used for an area in the building that you just want paging without music.



Feature Comparison

Feature	UTI1	TAMB2/PS
Single-zone paging	✓	✓
Telephone interfaces:	·	·
Loop Start Trunk	✓	✓
Ground Start Trunk	✓	✓
Station Access (Analog 90V ring-up)	✓	✓
Page Port Contact Closure activation	✓	×
Page Port Voice Activation	✓	×
RJ11 6-Pin telephone plug	✓	×
Pluggable screw terminals	×	✓
Simple 2-switch interface setup	✓	×
Override paging (using loop start trunk or page port contact closure activation)	✓	×
Programmable activation of AUX contacts	✓	×
C-form contact	✓	✓
Output Page with level controls	✓	×
Output Page with Background Music with level controls	✓	✓
Output Impedance	·	·
8-ohm	✓	×
600-ohm	×	✓
Audio output can provide audio drive for 150 self-amplified speakers	✓	×
DC Output to power self-amplified speakers	✓	×
Bidirectional audio	×	✓
High impedance transformer-isolated background music input with level control	✓	✓
Variable music mute	✓	×
Night Ringer (contact closure activation)	✓	×
Tone Trigger (tone and duration selectable, closure activated)	✓	×
Tone burst (2 to 7 sec)	✓	×
Chime Tone	✓	×
Slow Whoop Tone	✓	×
Pre-Announce/Confirmation Tone	✓	✓
Adjustable output limiter	✓	×
Programmable timers control page duration (station and trunk)	✓	×
DTMF programming	✓	×
DIP Switch Programming	×	✓
DTMF Block to help suppress DTMF tone pass through	✓	×
DTMF tones pass through	✓	✓
DC Output to drive Self-amplified speakers	✓	×
Non-volatile memory for setup data (no backup battery required)	✓	×
Setup Tone to assist in volume setting	✓	×
Pluggable terminal strips	✓	✓
Microcontroller-based operation	✓	×
Wall mounting flanges	✓	✓
Rack Panel Kit Available	✓	✓
Security Cover Available	✓	×
AC Power with Internal Power Supply	✓	×
External DC Power Supply	×	✓
Two-Year Warranty	✓	✓

UTI1 Feature Codes & Defaults

	Feature	Feature Code	Data	Default
Pre-Announce / Confirmation Tone	Destination: Handset & Outputs	01		01
	Destination: Handset only	02		
	Destination: Outputs only	03		
	Tone: Inhibit	04		05
	Tone: Beep	05		
	Tone: Chime	06		
Override Tone	Disable	08		08
	Enable	09		
Trunk Disconnect	Disable	14		15
	Enable	15		
Tone Trigger	Slow Whoop Follow Contact	20		23
	Tone Follow Contact	21		
	2 Sec Burst	22		
	3 Sec Burst	23		
	4 Sec Burst	24		
	5 Sec Burst	25		
	6 Sec Burst	26		
	7 Sec Burst	27		
	Double Chime	28		
	Double Chime Follow Contact	29		
Night Ring	Simulated Ring	31		31
	Chime	32		
DTMF Block	Disabled	40		41
	Enabled	41		
Timers	Default Timer[1]	50	00 - 99	03
	VOX Timer[2]	51	0 - 9	6
Aux Relay Response	Override Disabled	60		61
	Override Enabled	61		
	Tone Trigger Disabled	62		63
	Tone Trigger Enabled	63		
	Page Disabled	64		65
	Page Enabled	65		
	Night Ring Disabled	66		67
	Night Ring Enabled	67		
	Delay	68		69
	No Delay	69		
	Priority-Driven	70		71
	Event-Driven	71		
Setup Tone	Turn On	00		
	Turn Off	Hang Up		
Reset	Reset Default	99		

Notes to Feature Codes

Note 1 - The data digits represent time in 10's of seconds, i.e. "01" = 10 seconds. Entering "00" will disable the timer.

Note 2 - This single data digit indicates VOX delay time in seconds. Entering "0" will disable the timer.