

# 3 To 12 Zone Paging Controller with Paging Module

Models UTI312, ZX3



UTI312



ZX3  
3-Zone  
Expansion Module



## Description

The UTI312 Zone Paging Controller provides multi-zone paging for one-way applications such as self-amplified speaker systems, with each output capable of providing audio for up to 150 self-amplified speakers. The UTI312 is compatible with all standard analog port types.

Each UTI312 comes with a pre-installed ZX3 module for three zones of paging and is expandable up to 12 zones. The UTI312 offers up to 24 programmable paging zone groups as well as all-call, auto select, override, night ring, two tone triggers, and code calling zone groups. The UTI312 also offers flexible dialing.

## Features UTI312

- Expandable from 3 up to 12 zones using ZX3 modules
- Up to 24 programmable paging zone groups
- Telephone interfaces: loop start trunk, ground start trunk, station access (analog ring-up), page port contact closure activation, page port voice activation
- Simple 2-switch interface setup
- Programmable activation of AUX contacts
- C-form contact per zone
- 24V DC, 1A internal power supply
- Provides audio drive for up to 150 one-way self-amplified speakers per zone
- Adjustable output limiter with threshold control and active indicator
- Two background music busses, selectable per zone
- Two high-impedance transformer isolated background music inputs
- Stereo combining inputs for background music busses
- All-Call paging zone group
- Auto Select paging zone group
- Override paging (using loop start trunk or page port contact closure activation) with zone group
- Night Ringer (90V and contact closure activation) with zone group
- Two Tone Triggers (tone and duration selectable, closure activated) with individual zone groups
- Select tone burst, chime, double chime, or slow whoop
- Code Calling with zone group

- 2 to 5 Digit dialing with flexible dialing plan for zone and zone group numbers
- Non-volatile memory for setup data (no backup battery required)
- Pre-Announce Tone
- Confirmation Tone
- Setup Tone to assist in volume setting
- Pluggable terminal strips
- Microcontroller-based operation
- DTMF programming
- DTMF Block to help suppress DTMF tones over paging system
- Programmable timers control page duration (station and trunk)
- Wall- or Rack-mountable
- Two-Year Warranty (both UTI312 and ZX3)

## ZX3

- One ZX3 module pre-installed with UTI312
- 3 zones per module
- Audio output with level control per zone
- Zone contact closure
- Zone activity LEDs
- Pluggable terminal strips

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## Technical Specifications

Input Impedance: 600 ohms (nominal)  
 Input Level: -10 dBm (nominal)  
 VOX Sensitivity: -30 dBm  
 Background Music  
 Input Impedance: 20k ohms  
 Music Input Level: -10 dBm (nominal)  
 Output Level: -10 dBm nominal  
 Output Impedance: 8 ohms  
 Speaker Drive Capacity: 150 per zone  
 Timer Duration: Default: 10s to 990s  
 (both defeatable) VOX: 1s to 9s  
 CPC Disconnect: Pulse greater than 300ms  
 ZX3 Contact Closure: 2A @ 30V AC, 0.5A @ 125V AC

AUX Contact Closure: 2A @ 30V DC, 0.6A @ 125V AC  
 DC Output: 1A @ 24V DC  
 Voltage: 120V AC  
 Current: 0.75A  
 Temperature: 0 to 104° F (-18 to 40° C)  
 Humidity: 0 to 85% non-precipitating  
 Approvals: C-UL (UL60950);  
 FCC Part 68 Registered;  
 FCC Part 15 Compliant;  
 Industry Canada CS-03  
 Dimensions: 16-<sup>3</sup>/<sub>8</sub>" W x 3-<sup>1</sup>/<sub>2</sub>" H x 4-<sup>7</sup>/<sub>8</sub>" D  
 19" W x 3-<sup>1</sup>/<sub>2</sub>" H x 4-<sup>7</sup>/<sub>8</sub>" D  
 (with mounting flanges)  
 Product Weight: 8 lb.

## Architect & Engineer Specifications\*

The UTI312 Zone Paging Controller shall provide multi-zone paging for one-way applications such as self-amplified speaker systems expandable from 3 to 12 zones using ZX3 modules. It shall also provide up to 24 programmable paging zone groups.

It shall be compatible with all standard analog port types: loop start trunk, ground start trunk, station access (analog ring-up), page port contact closure activation, and page port voice activation.

The UTI312 shall include a pre-installed ZX3 zone module for up to three zones of paging with an audio output with level control per zone. Each output shall provide audio for 150 self-amplified speakers. Each zone shall include zone activity LEDs.

The unit shall provide 1A @ 24V DC (+20 CU) for powering external equipment.

It shall include two high impedance transformer-isolated background music inputs with volume control. Background music source shall be selectable per zone.

It shall include an adjustable output limiter with threshold and active indicator.

The UTI312 shall provide override paging (using loop start trunk or page port contact closure activation) with zone group.

The UTI312 shall include an all-call paging zone group, an auto select paging zone group, night ringer (90V and contact closure activation) with zone group and two tone triggers (tone and duration selectable, closure activated) with individual zone groups. The unit shall include code calling with zone group.

The UTI312 shall include a flexible dialing plan for zone and zone group numbers, programmable from two to five digits.

DTMF programming shall be available through the override input. It shall include DTMF block to help suppress DTMF tones from being heard over the paging system.

The unit shall include programmable timers to control page

duration (station and trunk) that can be inhibited.

The unit shall include programmable pre-announce and confirmation tones that can be set to be heard at the speakers being paged or at the calling telephone or both, as well as a setup tone to assist in volume setting, both of which can be inhibited.

The unit shall include a tone level control that sets the level for all tones.

The unit shall include a night ring level control.

The unit shall include a programming reset to return the UTI312 system to the original factory default values.

Each zone output shall provide a dual form contact rated at 2A @ 30V DC and 0.6A @ 125V AC that changes state when the zone is accessed.

The UTI312 shall allow the installer to program a number of different parameters to control the way in which the AUX relay contacts activate. The UTI312 shall allow programming of which input events the AUX relay will respond to, whether it will respond to the event only or to a combination of the event and its place in the priority structure, and if it will respond during the event or after the event ends.

It shall include non-volatile memory for setup data (no back-up battery required)

The UTI312 shall be wall and rack mountable using reversible brackets included with the unit.

The UTI312 shall be C-UL approved (UL60950), FCC Part 68 Registered, FCC Part 15 Compliant, and Industry Canada CS-03.

Dimensions of the unit shall be 16-<sup>3</sup>/<sub>8</sub>" W x 3-<sup>1</sup>/<sub>2</sub>" H x 4-<sup>7</sup>/<sub>8</sub>" D and 19" W x 3-<sup>1</sup>/<sub>2</sub>" H x 4-<sup>7</sup>/<sub>8</sub>" D with mounting flanges. Product weight shall be 8 lb.

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\* Architect and Engineer Specifications are available online in a Word document to assist you with preparing your bids.