

AN1300 PAGING SYSTEM

FEATURES AT A GLANCE



- Effectively contact a group instantly in all situations
- Alpha numeric display provides basic instructions to users
- Optional high power amplifiers are available to extend coverage

APPLICATION

In an emergency or whenever there is a need to contact a group of individuals simultaneously, a Paging system can be an effective solution.

THE PROBLEM

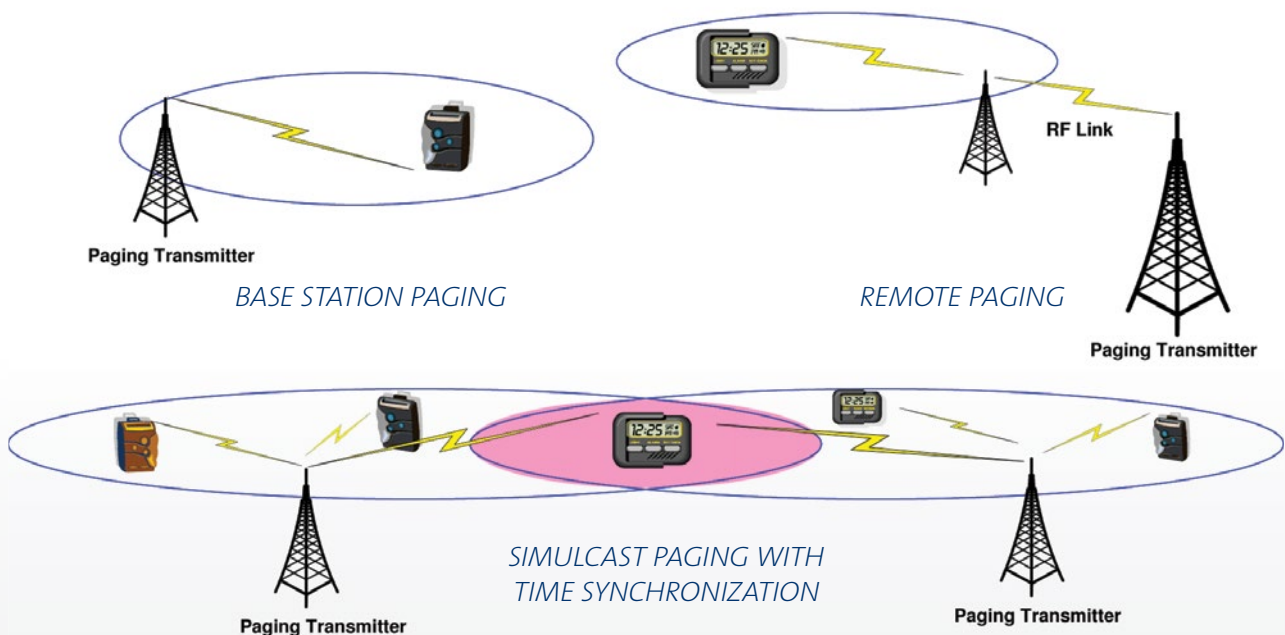
In an emergency there is a need to summon all your staff to respond to the situation. Regular communications may be congested or too slow to contact a large group of people individually.

THE SOLUTION

Paging can provide an effective alternate means to alert staff they are required in an instantaneous manner and also through the alpha numeric display provide basic instructions on what to do or where to meet.

TYPES OF PAGING

Three types of paging systems can be provided to best meet your requirements: Base Station Paging, Simulcast Paging and Remote Paging.



BASE STATION PAGING

Base Station Paging is the simplest configuration with the paging encoder connected to the Codan radio for broadcast over the local coverage area. Optional high power power amplifiers are available to extend the coverage area. A third party paging encoder generates the paging format for either analog (tone and voice) or digital display (numeric output). The Codan radio then relays the radio signal to the hand-held pager.

SIMULCAST PAGING

A simulcast system enables a message to be sent to all pagers in an overlapping coverage region simultaneously. High stability frequencies are required to time synchronize the multiple paging transmitters for simulcast.

REMOTE PAGING

A remotely operated paging transmitter can be connected back to the base paging transmitter through a Codan RF repeater link for greater paging coverage. The paging encoder generates the desired analog or digital formats which are transmitted to a remote paging site through a radio link. Optionally the remote paging site can operate as a conventional voice repeater when not operating in paging mode.

THE BENEFITS

Codan radios support narrowband (12.5 kHz – NTIA compliant) and wideband (25 kHz) paging for base station, simulcast and remote paging applications. Optional high power power amplifiers are available to extend the coverage area.

A 3rd party paging encoder generates the paging format for analog (tone and voice) or digital display (numeric/ alphanumeric output) pages. A variety of transmission standards are supported including:

- POCSAG at data transfer rates of 512, 1200, and 2400 Baud
- Motorola's FLEX™ 2 and 4-level modulation Paging Protocol at data transfer rates up to 1600 bit/s
- PURC controller signal

The Paging Modulator card interfaces the paging encoder to the Codan radio module(s). It is designed for low power consumption, typically drawing less than 300 mA in steady state. It can also be configured for use as a data repeater whereby 2-level paging data is recovered, re-shaped and then retransmitted to an additional repeater/paging transmitter. In its standard configuration, the Paging card uses an on-board 10 MHz high stability OCXO frequency reference source. For high stability applications such as Simulcast, the Paging Modulator may also be configured to use an external high stability reference source.

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