



MISSION-CRITICAL COMMUNICATION SYSTEMS

Paging

[Paging Overview](#)

[Paging Terminals](#)

[Paging Accessories](#)

[Paging Encoders](#)

Paging infrastructure sets up a wireless paging network through which users send and receive voice, numeric, and alphanumeric pages.

Zetron supplies paging solutions for many applications, from small, private paging systems to large, public paging networks.

Commercial paging operators offer airtime on public paging networks to a wide range of companies and individuals. Subscribers pay a monthly invoice for pager rental and airtime usage.

An on-site paging system establishes a private paging service to ensure that personnel can be contacted at all times. On-site paging systems are also used for process and procedure management.

The key to Zetron's success is that we have a broad range of products so a system can be configured to precisely meet the budget and need of most paging applications. A modular architecture ensures that our systems offer cost-effective performance today with an upgrade path for tomorrow's growth, feature enhancements, and technology adaptations.

Paging Terminals

Zetron offers the equipment used to provide commercial paging service within a metropolitan region. The equipment, called a "paging terminal", includes the ability to answer calls seeking to make the page, decodes or records the message, certifies the paging customer's validity, encodes the message to the correct format for the customer's pager, and manages the page through the radio transmission network. The paging terminal then provides appropriate information to the billing system. Multiple paging terminals may be networked to expand the coverage area.

Model	M32	M64	M640X	2000S	M2700
Max # of Subscribers	1,000	1,000	1,500	50,000	1,000,000
Alphanumeric Paging	-	-	Yes	Yes	Yes
Numeric and Tone-Only Paging	Yes	Yes	Yes	Yes	Yes
Voice Paging	Yes	Yes	Yes	Yes	-
Max # of Telco Ports	1	3	4	58	60*
Group Paging	-	Yes	Yes	Yes	Yes
2-Tone Group Call Support	Yes	Yes	Yes	Yes	-
Priority Paging	-	Yes	Yes	Yes	Yes
Call Counting	-	Yes	Yes	Yes	Yes
System Voice Prompts	-	Yes	Yes	Yes	Yes
Subscriber Recorded Prompts	-	-	-	Yes	Yes
Countdown Paging	-	-	-	Yes	Yes
Voice Messaging/Retrieval	-	-	-	Yes	Yes
Talk-Back Paging	Yes	Yes	Yes	Yes	-
Mobile Originated Calls	Yes	Yes	-	-	-
SNPP and SMTP Paging	-	-	-	-	Yes
Pager Types	M32	M64	M640X	2000S	M2700
Numeric	Yes	Yes	Yes	Yes	Yes
Alphanumeric	-	-	Yes	Yes	Yes
Alert-Only	Yes	Yes	Yes	Yes	Yes
Voice	Yes	Yes	Yes	Yes	-

Analog Pager Formats	M32	M64	M640X	2000S	M2700
2805 Hz Mobile/Pulse	Yes	Yes	-	-	-
2-Tone	Yes	Yes	Yes	Yes	-
5/6 Tone	Yes	Yes	Yes	Yes	-
DTMF Mobile	-	Yes	-	-	-
HSC	Yes	Yes	-	-	-
Digital Pager Formats	M32	M64	M640X	2000S	M2700
FLEX 1600	-	-	Yes	Yes	Yes
FLEX 6400	-	-	-	Yes	Yes
Golay	Yes	Yes	Yes	Yes	Yes
Multitone MK IV/V/VI (w/o FLEX)	-	-	Yes	Yes	Yes
NEC D3 (w/o FLEX)	-	-	Yes	Yes	-
POCSAG 512/NEC D4	Yes	Yes	Yes	Yes	Yes
POCSAG 1200	-	-	Yes	Yes	Yes
POCSAG 2400	-	-	Yes	Yes	Yes

Model 32 DAPT-Jr

The Model 32 is a compact paging terminal for on-site systems that can be serviced by a single telephone input. The Model 32 is typically used by small healthcare facilities, fire departments, and factories. The Model 32 connects to a PBX or the public telephone system for direct-access paging by telephone.

Model 64 DAPT-Plus

The Model 64 DAPT-Plus, a dial access paging terminal, can be equipped with up to three incoming telephone lines. It can control up to four transmitters and interfaces to most types of transmitters and PBXs. The Model 64 is designed for applications such as: healthcare facilities, fire brigades / departments, and factories where multiple telephone inputs are required.

Model 640 DAPT XTRA

The Model 640X is a cost-effective solution for small to medium sized organizations offering a paging service based on bureau-type operator paging and/or direct telephone access. It is ideal for hospitals and public safety organizations that have emergency response teams. Complete messages can be conveyed without an operator typing in a message. The Model 640X supports all popular analog and digital paging formats, including FLEX. This dial access and PC-driven paging terminal supports up to 1,500 users with up to four telephone lines. Voice pages and numeric or prestored alphanumeric messages may be sent by telephone.

2000 Series Paging Terminals

2000 Series Paging Terminals are the hub of an integrated communications system for larger private paging systems. These terminals are incrementally expandable in both capacity and options, so a system can start small and grow as required. A 2000 Series paging terminal is available with advanced features such as voice messaging/retrieval and dial out access for integration with public wide-area paging networks.

Model 2700 Paging Message Gateway

The Model 2700 is a versatile and highly configurable paging terminal with built-in features that maximize continuous service. The Model 2700 takes advantage of "off-the-shelf" components allowing for easy system updating virtually eliminating the possibility of obsolescence. The configuration and operation software is user-friendly. With very little training, end-users are able to use and customize the configuration and operation screens.

Paging System Accessories

Zetron makes equipment that enhances the radio network of paging operators by controlling the communications among different radio sites.

[Model 33 Paging Network Controller](#)

The Model 33 is a remote transmitter controller which connects directly to paging encoders and terminals such as the Zetron Models 15, 32, or 64. The Model 33 can be used with paging terminals that do not have built-in PURC remote control. It can control the transmitter(s) via a wireline, microwave, or RF link.

[Model 55B Page Buffer](#)

The Model 55B is a high fidelity "simplex repeater" suitable for storing and forwarding analog and digital pages. By storing pages received from a terminal for later transmission and allowing remote control transmitters on shared channels, the Model 55B eliminates the need for costly zone sequencing or simulcasting equipment. The Model 55B can monitor a COR input at the transmitter site to prevent transmission of pages when the frequency is busy.

[Model 55D Digital Repeater](#)

The Model 55D is used to extend the range of a paging system by decoding and retransmitting pages. Connected to a receiver/transmitter in the range of the main transmitter, the Digital Repeater decodes the incoming POCSAG page, error corrects it, and stores the page in memory. When the channel is clear, it reconstitutes the page and retransmits it. Used for extending the range of paging systems, the digital repeater can use the system ID feature to only respond to pages with the correct System ID. Individual Zone Address Steering enables multiple Model 55Ds to extend the range over several units in a sequence.

[Model 66 Transmitter Control Panel](#)

The Model 66 Transmitter Controller connects to a radio-paging transmitter and allows the transmitter to be remotely controlled from a central paging terminal. The Model 66 recognizes the site address, selects the modulation mode (analog or digital), keys up the transmitter, and transmits the audio or digital data. Multiple transmitters can be synchronized, dual-frequency transmitters can be controlled, and four link "hops" are allowed. The Model 66 is FLEX 1600 bps and Motorola PURC compatible.

[Model 68 Transmitter System Controller](#)

The Model 68 interfaces directly with the radio channel output of a 2000 Series terminal to steer transmitter control signals to up to 16 separate interfaces. This allows a combination of RF, wireline, and microwave links to be controlled from one radio station card output. The Model 68 is ideal for controlling multiple transmitter sites and supporting zone sequencing operation.

Model 600/620 High Speed Simulcast Paging System

The Zetron High Speed Simulcast Paging System uses timing information from the Global Positioning System (GPS) to

synchronize the transmission of digital paging signals to very tight tolerances. This provides the microsecond timing accuracy necessary

for high-speed simulcast paging with protocols such as POCSAG and FLEX®. The system consists of the Model 600 Wireless Data Manager (Source Unit) and multiple (up to 1000) Model 620 Wireless Data Encoders (Destination Units). The link between the Source and Destination units may be any type (or combination) of link that can reliably transport data. Designed for non-proprietary transmitters, the system is ideal for cost effective build-out of new transmitter sites for public or private paging system operators.

Paging Encoders

A manual paging encoder is a desktop unit that an operator uses to enter a page message. Zetron paging encoders are ideal for single-site, single operator paging applications when it is not necessary for administrative, billing, or management reports to be generated.

Capacity/Capability	M5	M15	M16	M25	M61/61F
Max # Subscribers in Database	Manual	Manual	1,000	Manual	N/A
# of Paging Formats Supported	2	15	3	13	4
Paging Encoder Features	M5	M15	M16	M25	M61/61F
Single Key Repage	Yes	Yes	-	Yes	-
# Instant Call Buttons	-	-	-	29 to 206l	-
Internal Microphone	Yes	-	-	-	-
Alert Tones	Yes	Yes	-	Yes	-
Alphanumeric Paging from CRT	-	Yes	Yes	-	-
Stacked or Batched Paging	-	Yes	Yes	Yes	Yes
Two-tone Group Call	Yes	Yes	-	Yes	-
# Radio Zones	1	1	1	4-8	1
Computer Interface	-	-	Yes	Yes	-
Paging Encoder Formats	M5	M15	M16	M25	M61/61F
<i>Pager Types</i>					
Numeric	Manual	Manual	1,000	Manual	N/A
Alphanumeric	Manual	Manual	1,000	Manual	N/A
Tone-Only	Manual	Manual	1,000	Manual	N/A
Voice & Tone/Voice	Manual	Manual	1,000	Manual	N/A
<i>Analog Pager Formats</i>					
2805 Hz Mobile/Pulse	Manual	Manual	1,000	Manual	N/A
2-Tone	Manual	Manual	1,000	Manual	N/A
Custom 2-Tone, Plectron	Manual	Manual	1,000	Manual	N/A
5/6-Tone	Manual	Manual	1,000	Manual	N/A
DTMF Mobile	Manual	Manual	1,000	Manual	N/A
REACH	Manual	Manual	1,000	Manual	N/A
HSC	Manual	Manual	1,000	Manual	N/A
<i>Digital Pager Formats</i>					
Flex 1600	Manual	Manual	1,000	Manual	N/A
Flex 3200	Manual	Manual	1,000	Manual	N/A
Flex 6400	Manual	Manual	1,000	Manual	N/A
Golay	Manual	Manual	1,000	Manual	N/A
NEC D3	Manual	Manual	1,000	Manual	N/A
POCSAG 512/NEC D4	Manual	Manual	1,000	Manual	N/A

POCSAG 1200	Manual	Manual	1,000	Manual	N/A
POCSAG 2400	Manual	Manual	1,000	Manual	N/A

Model 5 Communications Paging Encoder

The low-cost Model 5 desktop encoder is used for small on-site systems with analog two-tone or five-tone pagers or with radios. The Model 5 features a built-in microphone for tone-and-voice pagers, programmable keyup delay, programmable cap code capacity, automatic transmitter keying and mic muting, and single key-repage.

Model 15 Multi-Format Paging Encoder

The Model 15 is equipped with 15 paging formats, both analog (tone-and-voice) and digital display. The Model 15 supports stacks and other convenience features. The Model 15 supports alphanumeric paging through a built-in RS-232 serial port.

Model 16 Alphanumeric Paging Encoder

The Model 16 is a computer-driven, digital paging POCSAG encoder which can be connected to the serial port of a personal computer. Used with alphanumeric page entry software, the Model 16 is ideal for systems that have multiple operators entering alphanumeric pages who do not need caller telephone access.

Model 25 Programmable Encoder

The Model 25 is an instant call paging encoder used in airports, fire, and emergency centers to alert pager users. The press of a single button or a signal from a CAD interface initiates the page. The Model 25 automatically controls and selects among up to eight transmitters or frequencies.

Model 61/61F Network Access Paging Encoder

The Model 61 receives TNPP data via an RS-232 port from a satellite downlink, wireline, or radio link. It then encodes pages and batches them for transmission. Ideal for remote sites that need to monitor for co-channel activity before paging, the Model 61 makes any digital transmitter a simple and inexpensive TNPP network node. Model 61F encodes FLEX and POCSAG; Model 61 encodes POCSAG and Golay Paging formats.



Midgårdsvägen 20, S-973 34 LULEÅ
 Tel: 0920-22 24 10, Fax: 0920-22 24 20
 E-Mail: info@vianetab.se
 Gsm: 070-545 14 52, 070-545 17 81