

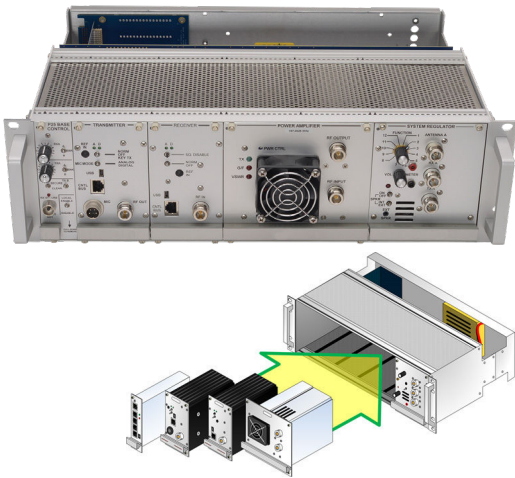
ZETRON

MT SERIES

MT-4E Repeater & Base Station



Analog & P25 communications platform offering industry leading reliability, flexibility & performance.



MT-4E Series products can be found at thousands of radio sites working as standalone repeaters, base stations, or operating as a whole network of communications infrastructure, providing coverage into the most challenging terrains. The MT-4E is tough and reliable. From freezing mountain peaks to scorching deserts, from snowstorms to wildfires, the MT-4E Series has time and again pushed the limits of what radio communications infrastructure can do under extreme conditions, ensuring problem-free operation when it counts.

The modular design of the MT-4E Series allows it to be configured and customized into almost any conventional radio configuration or architecture, which provides a variety of creative solutions to simple and complex communications challenges. Our commitment to standards-based, vendor-neutral operation means you will never be locked into functionality-limiting or costly single vendor solutions.

What is the MT-4E?

Since the launch of the MT-4E Series platform over a decade ago to address the needs of a growing P25 digital market, the application of the MT-4E product has grown to creatively solve simple, to the most complex radio communications infrastructure challenges. The MT-4E Series is the foundation for thousands of radio sites, either as standalone repeaters/base stations, or providing coverage into the most challenging environments. From remote mountaintop base stations and repeaters, to voting and simulcast solutions, to trunked radio systems, thousands of users across the globe trust their business and safety to the MT-4E's seamless and problem-free operation.

How the MT-4E Platform Works

The MT-4E Series is a modular system based on a 19-inch subrack platform consisting of a signal routing motherboard and 3RU rack mounting chassis. Hot-swap capable RF and control modules are arranged in the subrack housing to create a multitude of different repeater and base station system configurations to suit any communications need.

- RF modules are available in UHF, VHF, 700/800/9000 MHz bands. Available in analog or P25 operation.
- Control modules are added to an MT-4E system to provide various additional functionality, including:
 - Flexible external interfaces into an MT-4E system including RoIP via the APCO P25 DFSI open standard, paging controller, and 2/4-Wire E&M
 - Signal routing and steering to create any combination of drop-link, multilink or crossband system
 - External discipline of the transmitter for increased stability or for modulation of digital paging signals
- A selection of amplifier products can be added to increase the built in 8W exciter power from 30W up to 100W, depending on application power and rack spacing requirements.
- The subrack chassis has an optional wrap-around panel with a built-in AC/DC power supply, and provides a terminal block that gives access to pertinent audio and control signaling for interface into external controllers.
- An optional 1U remote site monitoring option provides live site data and logging capabilities for predictive trending and alarm/trigger notification.

The MT-4E Receiver and Transmitter modules, as well as select control interfaces, are supported by easy-to-use software applications that allow for easy setup, configuration and testing.

Why the MT-4E Series?



Advanced System Solutions

The flexible nature of the MT-4E platform supports integration with advanced control technology, allowing this dependable platform to support conventional voting and simulcast, as well as trunked applications.



Low Current Operation

Industry leading specifications for current draw make the MT-4E Series ideal for DC-powered sites, particularly those in remote areas relying on solar power.



Environmentally and Mechanically Robust

The MT-4E is field proven to perform in environmentally harsh deployment conditions.



Open Standards Compliant

The MT-4E Series has been designed with full compliance to industry standards, such as APCO P25 and various TIA published standards, allowing for interoperability with other compliant third party products.

Fixed Applications

The MT-4E Series has been the industry benchmark for low power environments, making it the gold standard for solar powered repeater applications. The MT-4E continues to be the top choice for critical systems operating in hard-to-access locations. Listed below are some of the typical fixed applications for MT-4E infrastructure:

- Remote solar repeaters and base stations
- Commercially powered repeaters and base stations
- RoIP enabled base stations and networks of repeaters
- Crossband repeaters, drop-link repeaters and custom multi-link solutions

The flexible nature of the MT-4E platform allows for simple integration with external controllers, which has allowed the applications of this dependable product to expand far beyond simple remote, solar installations. We are proud to offer the following advanced-feature solutions using the MT-4E product as a foundation:

- P25 digital and analog conventional networking of LMR infrastructure
- P25 digital and analog conventional voting and simulcast
- Multi-site P25 digital trunking

Both Conventional and Trunked solutions offer the following advantages:

- APCO P25 compliant, vendor-neutral solution
- Distributed network control and fallback modes for maximum redundancy
- Scalability without tiered pricing
- Fully IP based core

Transportable Applications

The durable, low-current benefits of the MT-4E Series provide the foundation for our line of transportable products that address a variety of applications, from harsh environments, to tactical deployments. Unlike many products available in the LMR industry, MT-4E based transportable solutions are among the only offerings that use infrastructure-grade equipment; this means greater reliability, and broader functionality, particularly in P25 digital applications.



Why Zetron?



Zetron Services and Support

Zetron offers unparalleled customer service, training and support through Zetron's Connected Care plan. Services include telephone support, software maintenance, hardware replacement and repair, remote and on-site configuration assistance, system re-optimization, and technical and operational training.



Performance You Can Count On

Zetron has a reputation for the reliability and robustness of its products. They are specifically designed to meet the needs of mission critical operations that must stay up and running 24/7. Zetron solutions are also known for their longevity. Not only do they continue to deliver a rock solid performance over time, but they have the flexibility to keep pace with emerging technologies and changing operational requirements.



About Zetron

Zetron is a leading provider of communications technology and services that help save lives and enable critical operations. Zetron solutions are highly interoperable, configurable, and scalable, offering unrivalled choice, flexibility, and value. Our customers are located on all seven continents and across a variety of industries, including public safety, federal government, transportation, utilities, natural resources and more. With an exceptional reputation for high quality and reliability earned over decades of experience serving both public and private sectors, Zetron delivers solutions that are purpose-built to be always ready, always on — anywhere that uninterrupted mission critical communications are non-negotiable. For more information visit www.zetron.com and connect with us on [LinkedIn](#), [Facebook](#), [Instagram](#), [X](#) and [YouTube](#).

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Always ready, always on.