

Automotive Audio Systems

F-RAM ideal for feature-rich automotive audio systems

A number of new car radio formats are emerging on the market. These formats include Digital Multimedia Broadcasting (DMB), suitable for radio, TV, and datacasting; satellite radio; and Digital Audio Broadcasting (DAB), better known as Eureka 147 DAB in Canada, Europe, and Asia.

The new formats transmit specialized data alongside the audio. The data may include artist title, music genre, traffic information, and weather.

Why use F-RAM?

F-RAM is ideal for storing new broadcast format data because the data changes frequently and must always be available immediately after power up. F-RAM enables function-rich audio features. Here are some common examples:

- **Favorite artist/song alerts:** This alerts drivers when their favorite artist or song is being played on any station.
- **Favorite station memory:** This sorts the thousands of available stations by personal taste using the station's call sign or slogan, name or type. It can also move a channel to a different position or rename it for easy reading.
- **Last channel memory recall:** This eases accessing the previous program.
- **Traffic information collection/storage:** Traffic data is downloaded while the vehicle is off and displayed to drivers when they start the vehicle to help them plan their routes. F-RAM's low power and high endurance makes this feature possible.



Ramtron's F-RAM has been designed into a variety of auto entertainment systems from high-end after-market systems to OEM equipment. F-RAM stores critical system information without the need for design work-arounds to safeguard against data loss during power down events.

F-RAM may also be used to store the audio parameters associated with the improved sound quality offered by these new radio formats:

- **Filter configuration and factory settings** including vocal, natural, super bass and flat among others.
- **Manual adjustment of all the DSP and EQ settings**, individual time delay adjustments for each of the channels, and advanced controls for crossover and filter settings on each channel.



For more information about Ramtron's complete line of automotive nonvolatile memory products, visit:

www.ramtron.com/go/automotive, or call

1-800-545-3726