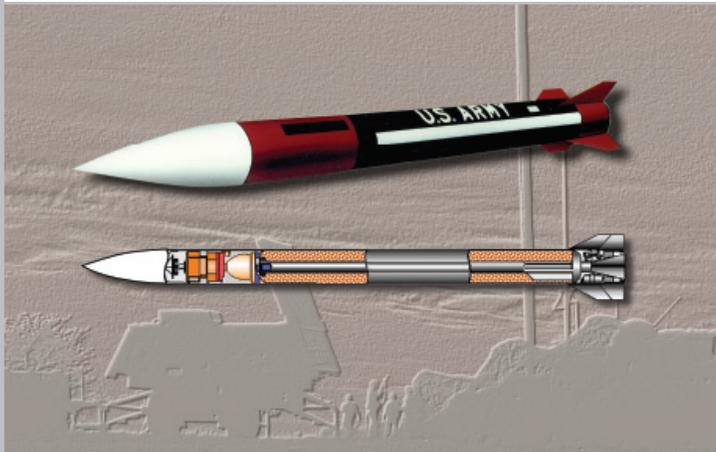




Patriot Guidance Enhanced Missile TBM (GEM-T)



With a blast fragment warhead, GEM-T provides high precision guidance and lethality against a range of ballistic and non-ballistic targets.

Benefits

- Combat-tested, low-cost capability multiplier interceptor
- Counters air breathing and tactical ballistic missile threats
- Provides obsolescence elimination/technology insertion and increased reliability
- Delivers low noise front end for increased seeker sensitivity and improved acquisition/track performance
- Leverages new low noise oscillator design to enhance acquisition and tracking performance in clutter

Guidance Enhanced Missile TBM (GEM-T) is the latest in-production series of the highly successful Raytheon Patriot missile variants available to both U.S. forces and international customers. GEM-T deliveries to the U.S. Army began in 2006. This capability adds a low-noise oscillator for improved acquisition and tracking performance in clutter. The GEM-T missile provides an upgraded capability to defeat tactical ballistic missile (TBM), aircraft and cruise missile threats in complement to the PAC-3 missile.

A modernized digital fuze design eliminates obsolescence and introduces significant performance improvements against TBM targets. This design

also increases sensitivity for improved performance against high-speed TBM targets.

The low noise front end (LNFE) of the GEM-T has increased seeker sensitivity, improving acquisition/track performance. The new low noise oscillator design has a modified down-link, which provides an increased signal to interference ratio, improving acquisition/ track performance against small ABT and cruise missile targets in clutter.

The GEM variants were combat proven in Operation Iraqi Freedom. In 2003, the U.S. and coalition Patriot units were deployed throughout the CENTCOM region to protect forces and populations from the threat of ballistic missiles.

The improvements developed and fielded since 1991 reflect the enhanced capabilities of Patriot to protect against threats to both static assets and forces in the attack. The Configuration-3 ground equipment, PAC-3 and GEM-T series of missiles are all combat proven.

For more information:
339.645.8350 phone

Raytheon Company
Integrated Defense Systems
50 Apple Hill Drive
Tewksbury, Massachusetts
01876 USA

www.raytheon.com

