



ECOS-E DTA7000 Radio Base Station

The World's Most Advanced True Multi-Mode LMR Base Station

Leonardo's ECOS-E DTA7000 radio base station is a game-changer for end-users and partner resellers dedicated to providing the most dependable and reliable critical communications networks possible. A true multi-mode solution, this advanced base station supports DMR and P25 with the highest degree of flexibility and versatility available. It serves the needs of law enforcement, first responders, utilities, transportation and other critical communications services regardless of geographical location, or area size, from single site to regional to nationwide networks.

The ECOS-E DTA7000 is a software-defined solution designed to provide easy, secure system configurations and hassle-free simulcast. It supports automatic redundancy and resiliency to increase the performance and dependability of your communications network now, while its multi-mode capabilities allow for simple technology migration for changing needs such as upgrades, growth, and expansion.

The ECOS-E DTA7000 is backward-compatible with Leonardo's ECOS-D system and RBS4000 base station. It fully supports industry open standards and interoperability.

Benefits of the ECOS-E DTA7000

- True multi-mode solution, supporting DMR and P25
- Designed for plug-and-play simplicity
- Hassle-free simulcast
- Web-based programming, eliminating the need for a software configurator
- Built-in resiliency and redundancy for the reliability of your communications network
- Built-in firewall for enhanced security
- Automatic configuration management system that simplifies the buildout of a large fleet of repeaters
- Backed by the best guarantee in the industry, including 10-Year Non-obsolescence and 5-Year Parts & Labor Warranty



The ECOS-E DTA7000 is Designed for Plug-and-play Ease

The next generation ECOS-E DTA7000 facilitates the design of single-site to regional to nationwide networks, supporting the following:

Architectures

- Simulcast (Analog, DMR or P25)
- Multicast (DMR, P25, TETRA)

Operating Modes

- Analog FM conventional
- DMR Tier II Digital Conventional
- DMR Tier III Digital Trunking
- P25 Phase 1 Conventional- P25 CAP Certified
- Dynamic Dual Mode DMR Tier II and analog FM conventional
- Dynamic Dual Mode P25 and analog FM conventional



The Technology Behind the ECOS-E DTA7000 Base Station

- Size: 1 RU
- RF output power 50W and 110W
- VHF: 136 – 174 MHz
- UHF1: 380 – 470 MHz
- UHF2: 420 - 512 MHz
- 700/800 MHz: 762-806 MHz & 806-869 MHz
- Channel spacing 12.5/20/25 KHz
- Embedded AMBE+2 vocoder for DMR voice communications (option)
- Real Time Linux OS
- Firmware remotely upgradeable via LAN
- Network Management (NMS): SNMPv3
- Embedded firewall
- Simulcast mode:
 - Supports Simulcast for conventional and trunking operations
 - Synchronization: GPS and/or IEEE 1588v2 PTP
 - Auto Adaptive Technology (A2T): allows the station to “adapt” to frequency response and automatically compensate time-variant changes of the backbone
 - Supports IP (SoIP – Simulcast over IP – technology) and 4W+E&M link interfaces
 - Redundant link management between stations (IP)



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