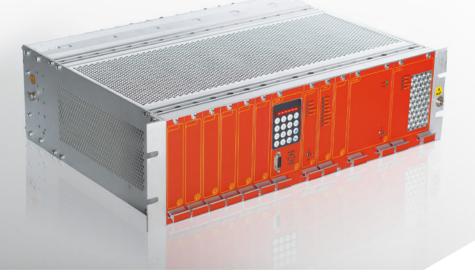
# LEONARDO ECOS-D AT A GLANCE





#### **Experience**

- Over 220 systems in 50+ Countries
- > Over 30 systems in North America

#### **Multi-mode Technology**

- Analog FM
- > DMR II
- > DMR III
- > P25 Phase 1
- > Dynamic Dual Mode
- Analog FM/DMR II
- Analog FM/P25

#### **System Architectures**

- Single Site
- Simulcast
- Multicast
- Hybrid combination of all

#### **Trunking Topologies**

- Centralized
- Distributed
- Hybrid combination of both

## Radio Base Station (RBS)

- > System 'In a Box'
- > 25 & 110 W models
- > VHF 136 to 174
- > UHF 400 to 470 (25W)
- > UHF 450 to 526 (110W)
- > 800 MHz
- > 900 MHz
- > Rx diversity option
- AC & DC power options

#### **Maintainability**

- Compact 3RU structure
- Modular construction
  - Hot-swappable front modules
  - Replaceable back cards
- > MMI keyboard front mounted
- Microphone (option) front mounted
- Remote alarming, diagnostics, & configuration
- > 2 memories in each RBS
- Native SNMP

#### Simulcast

- "Standard" feature on all RBS
- Standard" feature in all modes
- Equalization in the RBS: automatic, bi-directional
- Voting in the RBS
- Synchronization options
  - 1+1GPS in the RBS
- PTP
- Pilot tone
- External reference
- Priority driven redundancy
- > Resilient & reliable architecture
  - Automatic soft back-up
    - Server/sub-server/client
    - Server/back-up master
    - 8 nesting levels
- Flexible architectures
  - Star
  - Tree
  - Ring
  - Linear



**Request More Info Here** 

## Trunking

- Standard" feature on all RBS
- Dedicated control channel
- Mobility management in the RBS
- Gateway function in the RBS
- Site call management in the RBS
- Resilient & reliable architecture
  - Back-up mobility manager
  - Back-up gateway function
  - Back-up site call management

### **Console System**

- Gateway function in the RBS
- SiP based interface
  - AIS DMRA
  - AISIP Leonardo
- Successful integrations
  - Avtec
  - Zetron
  - Mindshare
  - TRBOnet
- > PTToC
  - ESChat

## **User Terminals**

- Trends
  - IP architecture, open systems, C.O.T.S.
  - LMR tracking cellular industry
- Interoperability
  - World leader in IOP/CAP certificates
  - DMRA IOP
- P25 CAP
- Leonardo DMR
- Mobiles
- Portables
- > DMR II: DMRA IOP
  - Leonardo
  - Hytera
  - Kenwood
  - Motorola
  - Simoco
  - Tait
  - Vertex

- > DMR III: DMRA IOP
  - Leonardo
  - Hytera
  - Motorola
  - Simoco
  - Tait
- P25 CAP
  - Motorola
  - Harris
  - Tait
  - Kenwood
  - EF Johnson
- Simoco

## Encryption

- > ARC 40-bit
- › AES 128
- › AES 256

#### Network & System Management

- Network Element Configuration Software (NECOS)
- > ECOS-D Connect
  - Network management system
  - Network health manager
  - Subscriber manager
  - Trunked KPI
  - EPS service analysis
  - Encryption key loader
  - License manager
  - Account manager
  - OTAP

## Service & Support

- North America HQ in Overland Park, KS
  - Marketing & sales
  - System engineering
  - Program & customer management
  - System integration
    - Staging
    - System build
    - FAT



**10-Year Non-Obsolescence Guarantee** 

**5-Year Parts and Labor Warranty** 

Committed to Interoperability and Open Standards

- Customer training
  - Tailored to your system
  - Your place or ours
  - Programs
    Operations
    Management
    Maintenance
    End user
  - Post system acceptance
    Spare parts inventory
    Diagnostic repairs
    System software
    maintenance
    Telephone technical support
    Priority hotline support
    Remote diagnostics
    Dispatched services
    Extended warranty



**Request More Info Here**