

# MICOM-3 Product Family

The field-proven Micom-3 product line reliably delivers long-range, independent radio communications in fixed or mobile configurations

Advanced HF radio solutions



**Elbit Systems**

Land and C4I



## MICOM-3 Features

### Cutting edge performance

- Micom-3 provides 125w PEP and AVG power output with exceptional RF performance
- Best-in-Class High Data Rate supports up to 19.2 Kbps by deploying the Micom-3's ISB mode of operation and an high speed ISB modem
- The Micom-3 line offers products designed and adapted to meet a wide range of operational environments by complying with the strictest international standards, including FCC, CE and various MIL-STDs
- Software-based Radio - DSP-based open architecture enables future software upgrades and easy adaptation to customer requirements
- High power systems based on high linearity, solid state amplifiers with up to 5kw power output

### Fast and simple link establishment

- JITC approved, Automatic Link Establishment per MIL-STD-188-141B, enables interoperability with other standard-complying radios
- **QuickNet** - Adaptive Multiple Networking expands the available capabilities of the standard net-based ALE mode. Increased net size up to 1000 stations and easy "phone book" style calling

### Voice that is loud and clear

- Voice-activated digital squelch
- Robust, adaptive Vocoder based on the Mixed Excitation Linear Prediction (MELP) adapted to meet HF channel conditions. The Vocoder delivers exceptional performance for the highest intelligibility and quality, while reliably overcoming adverse channel conditions
- **ClearCom** - cutting edge built-in de-noising algorithms and filters for exceptional voice communication clarity

### User-friendliness

- Large digital front panel display and keyboard for programming and set-up
- Multiple language display
- Intuitive, user-friendly Menu based MMI
- User-friendly Radio Control and Programming with easy to use PC software
- Versatile mounting configuration for fixed and mobile applications

### Easy, cost-effective maintenance

- 3-module design provides high commonality between radios - supporting efficient stock management and simplifying logistics and maintenance
- Easily replaceable modules ensure cost-effective maintenance and low MTTR
- All Micom radios offer a very high MTBF
- Exclusive Built-In self Test system provides absolute reliability

# Unmatched Performance



## Comprehensive communication and networking services

- Supporting a wide range of communication solutions including encryption-enabled Fax, Telephony and Data
- Enhanced Networking Package featuring routing capabilities, IP connectivity and standard mail client support - compliant with STANAG 5066
- AMD (SMS-like text messages) for pre-set or operator-defined text messages, point to point or point to multi point
- Internal GPS (option) for positional data, telemetry and AVL applications

## Secure voice and data communications

- Built-in digital encryption ensures secure voice and Data communications. When the radio includes optional digital encryption, communications are digitally encrypted per AES standards and are NIST certified

## Field-proven family of radio products

- The Micom transceiver family covers the long-range wireless communication needs of thousands of organizations worldwide for over 30 years
- The software-based Micom-3 radios deliver unmatched HF communication platforms, cost-effectively and reliably
- The Micom-3 radios are designed to meet or exceed the strictest international standards and are manufactured according to the company's demanding Quality Assurance standards

## From products to complete Turn-Key systems

- Designed specifically to provide a capable platform for turn-key systems tailored to our customers requirements, the Micom-3 product line supports the following scalable system capabilities:
  - IP connectivity for RoIP systems
  - Telephone Interconnect
  - LMR (FM) Interconnect
  - Video over HF for remote sensor systems
  - GMDSS
  - High power systems of up to 1kw



**Micom-3** a field-proven, flexible radio package designed to meet the needs of a wide range of organizations and operational requirements

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## Micom 3F

Front Mount 125w transceiver for fixed or mobile applications



## Micom 3T

Trunk mount 125w transceiver ideal for mobile installations



## Micom 3 Ranger

Ruggedized 125w transceiver for military and HLS applications



## Micom 3 Pathfinder

Ruggedized 25w manpack transceiver for military and HLS applications



## Micom 3 Carry On

125w self contained transceiver package ideal for operations requiring rapid deployment



## Micom RM500

500w system for high power stations and systems



## Micom RM125

125w system ideal for data applications and rack mount installation



## Micom RM1200

MOSFET amplifier-based 1kw system for continuous duty, high power systems



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