Elbit TMR™ Core
Tactical Data Router for IP & non-IP Radio Networks
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Connecting heterogeneous tactical radio networks—IP and non-IP, broadband and narrowband, the Mil-Grade Elbit TMR Core Tactical Multimedia Router is a compact and cost-effective solution which provides tactical data services through mobile ad-hoc networks (MANET), to armored vehicles and mobile command posts.

Main features:
- **Tactical Internet Enabler**

Elbit TMR Core nodes create a unified “Tactical Internet”, thereby overcoming the complexity of different radio data networks and enabling seamless integration of operational applications.

Standard and optimized routing protocols

The Elbit TMR Core implements standard routing protocols to facilitate IP services, together with advanced ad-hoc protocols and QoS mechanisms specifically developed and optimized to meet the challenges of tactical radio network environments.

**ELBIT TIGER™ inside**

ELBIT TIGER embedded routing system is the result of the Company’s significant experience in the field of tactical network communication. ELBIT TIGER routing protocols are field-proven and currently deployed throughout Elbit Systems’ customers’ tactical communication systems and data networks.
ELBIT TIGER™ - Tactical Routing Subsystem

- Self-healing, self-forming mechanisms.
- Efficient message forwarding from any to any node within the network.
- Efficient Multicast Registration and Distribution Mechanism.
- Geographical Publish and Subscribe services.
- Data aggregation and compression services.
- Data replacement and data expiration policies.

ELBIT TIGER™ - IP Routing Capabilities

- IPv4 and IPv6 dual stack support.
- Routing Core for IPv6.
- Standard routing protocols – RIPv2, OSPFv2, PIM-SM, BGP.
- Secondary IP addresses support routing protocols.
- Class-based forwarding.
- IP Multicast subscription (IGMP) and forwarding (PIM).
- GRE Tunneling (including QoS support on Tunnel interface).
- Supports multiple loopback interfaces.
- Multiple IP addresses per interface.
- DHCP server and client.
- Security mechanisms - IPsec, HTTPS, SSL, SSH, SNMPv3.
- QoS:
  - DiffServ-based, DSCP/TOS.
  - Bandwidth limitation for every access network interface.
  - Hierarchical shaping per interface and per queue.
  - ICMP Source Quench support.
  - RSVP Support (for CAC).
Elbit TMR™ Core
When a managed Layer III switch is just not enough!

Tactical Data Router for IP & non-IP Radio Networks

Technical Specifications

Ethernet managed switch capabilities
- Port based and 802.1q VLAN including MSTP
- STP/RSTP (802.1d + 802.1w)
- 802.1p (QoS at Layer 2)
- RMON and user-friendly interface to access switch statistics
- Port mirroring

Physical Interfaces
- 7 Ethernet ports 10/100 Mbps
- 3 Ethernet ports 10/100/1000 Mbps
- 2 non-IP (CNR) radio interfaces. Each connector consists of:
  - Full synchronous / asynchronous RS-232 data interface
  - Asynchronous RS-232 interface for radio control interface
  - Local operator’s PTT, Voice Rx indication and data PTT
- Service/Maintenance Interface
- Power input interface.
- GPS antenna input interface, driving internal C/A code GPS receiver

General Specifications
- Dimensions: 265 x 130 x 50mm (WxLxH)
- Input power: 9-32Vdc, 15W, Mil-Std-1275B
- Weight: 2.1 Kg
- WAN & LAN link & status LED indications
- Ambient Temp:
  - -30⁰c to +55⁰c (operating)
  - -40⁰c to +85⁰c (storage)
- Environmental: according to Mil-Std-810F
- RFI/EMI: according to Mil-Std-461E

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