Trendsetting Power Efficiency with Increased Processing Power and Capabilities over FONET based systems

Designed to support C2, C4, C5, & C6 integrations.

Complete system integration on a wide range of land and maritime platforms.

Scalable and Modular to support CX system deployment from small units to battalion level and higher.

WB GROUP

FONET MK2

Tactical Vehicle Integration Platform

SENSOR | COMMUNICATIONS | WEAPON SUBSYSTEM FUSION

At the core of the FONET system is the Central Unit. Modular and scalable, the Central Unit serves as the primary integration point to create a unified and efficient interface for communication, sensor, vehicle, and weapon subsystem on a tactical vehicle.

By providing a unified interface onboard for all subsystems, the Central Unit provides increased efficiency, access and control for all crew members while also reducing total platform SWAP.
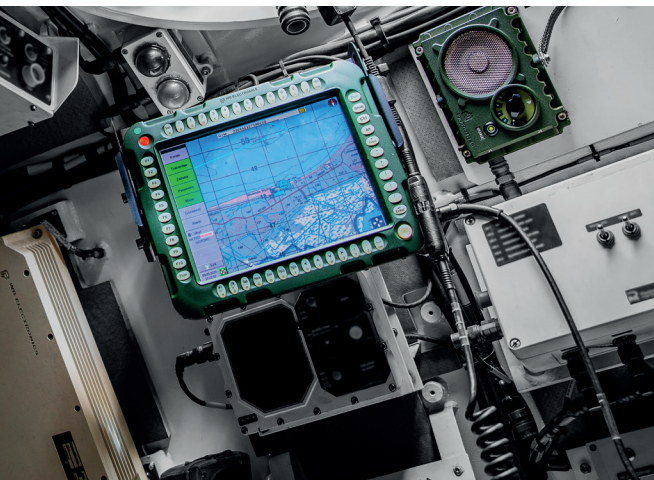
FONET MK2 implements a new and powerful processor architecture which significantly improves capability and versatility while also maintaining the power efficiency end users have come to expect from FONET products.

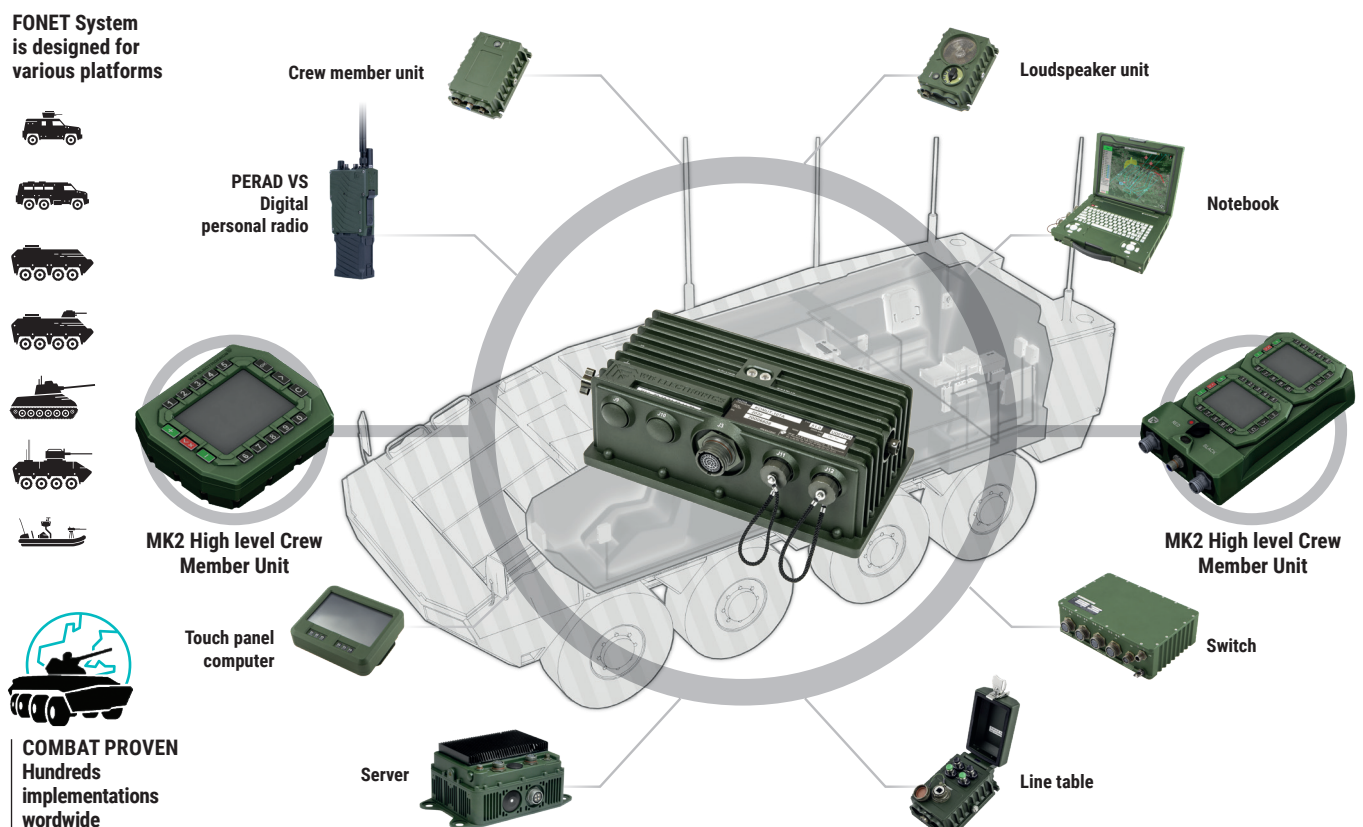Increased onboard processing power expands edge and distributed computing applications onboard vehicles.

With the inclusion of extensible hardware and a manageable ethernet internal switch, the reliance upon additional external devices is reduced.

FONET MK2 Features

- Quad Core ARM Architecture
- Backward compatible with legacy FONET systems
- Compatible with a wide range of tactical radio systems
- Easily Extensible Hardware Platform
- Manageable Internal Ethernet Switch with Distributed Switch Architecture
- Data QOS / Firewall / VPN Capabilities
- Expanded Internal USB Controller
- FCS, BMS and Situational Awareness System Compatibility
- Audio Quality Management / Active Noise Reduction
- Multiple/Simultaneous RTP/VoIP Streams (with G729)
- "Blackbox" Capabilities

High Level Apc Example

FONET System is designed for various platforms

Crew member unit

Loudspeaker unit

PERAD VS Digital personal radio

Notebook

MK2 High level Crew Member Unit

MK2 High level Crew Member Unit

Touch panel computer

Switch

COMBAT PROVEN Hundreds implementations wordwide

Server

Line table

CENTRAL UNIT – THE CORE

The **CENTRAL UNIT** is a LINUX-based specialized computer. It is the core of the FONET System. It switches voice channels and routes the digital data packages between end-user stations (crew member units, terminals) and other devices.

Quad Core ARM Processor	
8 two-wire radio connections (extendable to 12)	
6 Ethernet Connections	
4 USB Connections	
5 RS-232 Serial Connections	
Up to 12 Crew Stations	
Voltage Range	**18-36 Volts DC**
Dimensions	**84.6 mm x 153 mm x 256 mm**
Weight	**2.2 kg**

MK2 PORTABLE CREW MEMBER UNITS designed for highest level users

- Phonecalls set up
- Radio stations allocation
- Rebroadcast set up
- Data flow control
- System information and status display
- Phone numbers selection
- IP addressing
- Menu navigation and radios settings
- Communication via Ethernet or FONET line

Single Domain Advanced Crew Member Unit

Power consumption	**Max. 12 W per zone**
Power supply – input (separate input per zone)	**18 ÷ 36 V DC** (from on-board power supply) **42.5 ÷ 57 V** (from PoE)
Power supply output for ANR headset	**max. 0.3 A** (from internal power converter)
Headset Ports	**1 channel switchable between zones** (e.g. black/red)
Speaker	**1 channel switchable between zones** (e.g. black/red)
Display	**2 x high contrast, full color LCD 3,5"**
Dimensions	**150 [L] x 286 [W] x 62 [H] mm**

Dual Domain Advanced Crew Member Unit

Power consumption	**Max. 12 W**
Power supply-input	**18 ÷ 36 V DC** (from on-board power supply) **42.5 ÷ 57 V** (from PoE)
Power supply output for ANR headset	**max. 0.3 A per port** (from internal power converter)
Headset Ports	**2**
Display	**High contrast, full color LCD 3,5"**
Dimensions	**124 [L] x 106 [W] x 35 [H] mmWWW**

CREW MEMBER UNITS
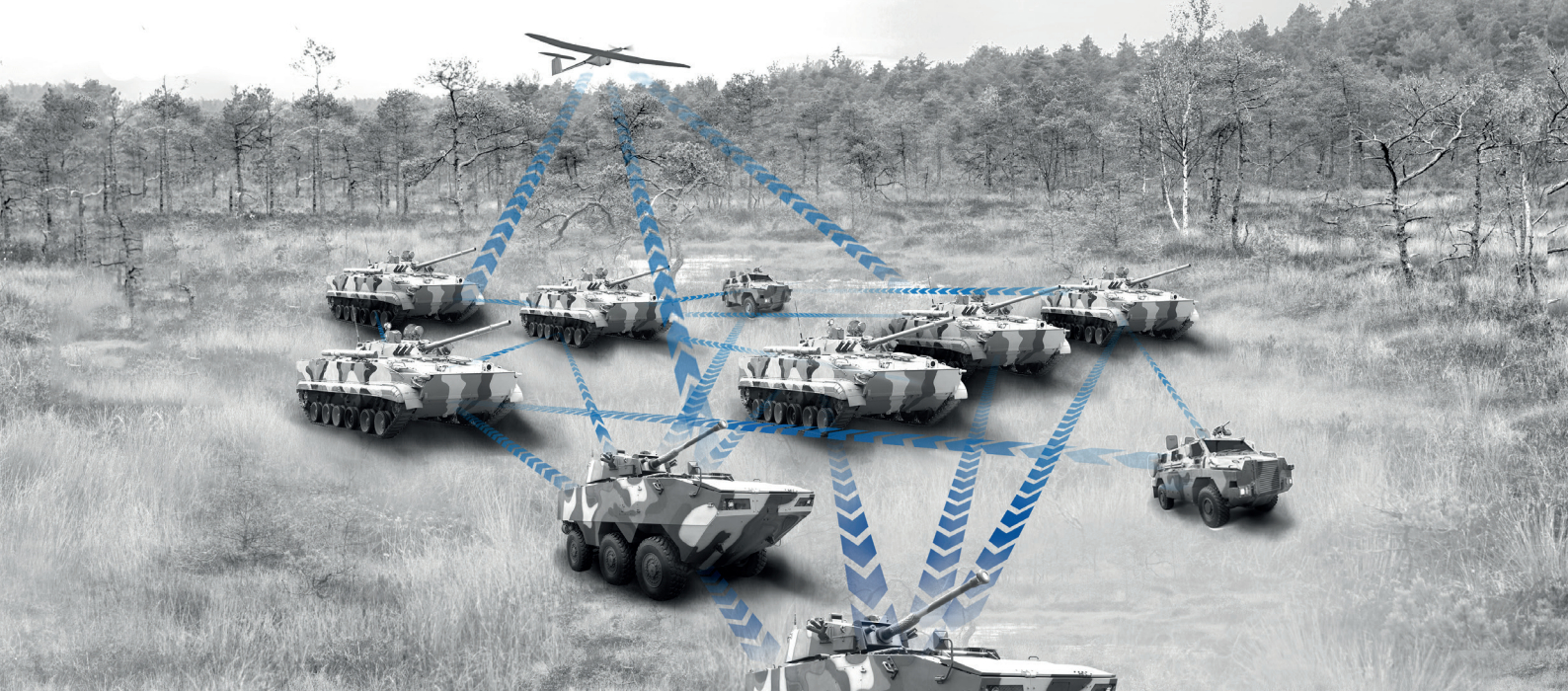
Crew Member Unit	Crew Member Unit	KOMUT LIOD-F Unit	Loudspeaker Unit	Switch	Router

Features	FONET	MK2
Virtual Private Network support	✓	Enhanced security and configuration
VLAN support with security features	✓	Enhanced security and configuration
SYSLOG	Limited by HDD size	Unlimited and encrypted
NTP System	Client	Client / Server
Remote Control	Hex / ASCII	Unlimited
Data silence and global radio silence services	✓	Enchanced radios compatibility
Self Destruction Mode	✓	Enchanced on BLACK/RED Configurations
Embedded remote configuration system and monitoring	✓	Enchanced by User Scrypting Capability
Blackbox – registration of voice communications and events	Limited by HDD size	Unlimited by Network File Systems
VPN server – Virtual Private Network Support	✓	Enchanced security protocols
Audio Feedback Protection service	Limited to one loudspeaker per system	Available for all audio channels in platform
MELPe 2400 narrowband channels support	4 radios	Available for all audio channels in platform
New types of user terminals equipped with graphics display	Limited to compatibility mode	✓
Dual Core RISK CPU	✓	✗
Quad Core ARM CPU	✗	✓

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