Epsilor

NETWALKER®

SOLDIER WEARABLE DATA CONNECTIVITY AND POWER DISTRIBUTION SYSTEM

The digital revolution is constantly introducing new types of man portable military electronics. Providing a critical advantage for the digital warfighter, this essential equipment also bears two main challenges: an additional 8 kg load of batteries and cables, and possible lack of connectivity between different types of equipment.

NETWALKER®, Epsilor's 3rd generation Soldier Wearable Data Connectivity and Power Distribution System creates the essential joint C4ISTAR environment for the digital warriors, providing them with high speed ETHERNET and USB2 connectivity, a joint power storage and distribution hardware and flexible conformal high density Li-Ion batteries.

POWER TO DEFEND

www.epsilor.com

TACTICAL ENERGY INDEPENDENCE

Epsilor's batteries, chargers and power products are part of the company's Integrated Power Management Logistic and Operational Concept that aims to provide the tactical unit with full mission energy independence.

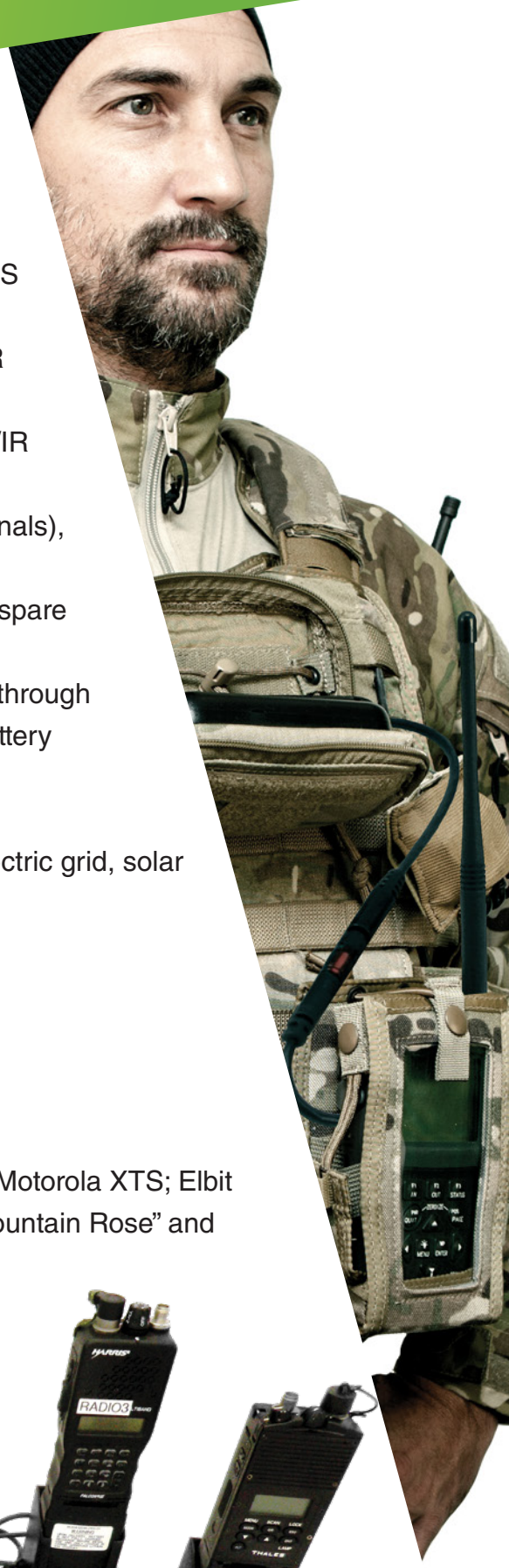
HIGH SPEED CONNECTIVITY, ENERGY OPTIMIZATION AND SIMPLE SUPPLY CHAIN

With up to 1 GBpS speed, the system supports transmission of streaming HD video and advanced encryption protocols. NETWALKER® also simplifies operational and logistical complexity at the unit level, enabling simple connection of various types of electronic equipment and standardization of battery charging and resupply.

Comprised of a miniature lightweight tactical switch, 2 or 3 conformal batteries and ruggedized cables, a typical NETWALKER® system can store over 600Wh of energy reducing soldiers' battery load by up to 40%.

Based on the US ARMY 2010 Best Invention award winner, SWIPES, NETWALKER offers an even more advanced solution addressing the physiological, logistical and tactical challenges of the information age dismounted warfighter.

*A soldier's typical energy consumption and battery load calculated according to US Army Research Laboratory, 2011.



KEY FEATURES

- A joint communication switch that incorporates 10/100 MBpS or 1 GBpS ETHERNET switch and a USB2 hub
- Bridging over 2 secured networks, creating a joint C4ISTAR soldier system
- Interconnecting different types of electronic equipment: EO/IR imagers, tactical computers and video players, tactical communications (multiband, cellular, SATCOM, video terminals), tactical electronic warfare (interceptors, jammers)
- High density flexible conformal batteries replacing all other spare batteries and optimizing soldier energy load and comfort
- On-the-move charging of all soldier's electronic equipment through vest-integrated mini docking hubs or through lightweight battery eliminators
- Maintains electronic equipment fully charged and on alert
- Energy harvesting from any available source in the field: electric grid, solar panel, vehicle charging hub, generator or other batteries.
- Simplified common battery supply chain
- Real-time energy status monitoring and low energy alert

SUPPORTED EQUIPMENT

MILITARY TACTICAL RADIO

PRC-148 MBITR; PRC-152 Falcon; PRC-154 Rifleman; PRC-153 Motorola XTS; Elbit Systems Tadiran-624/710/714/1004, Motorola Military Cellular "Mountain Rose" and various backpack radios

TACTICAL COMPUTERS

DAGR, Panasonic Toughbook, etc.

EO EQUIPMENT

SLS, optical headsets, thermal imagers, laser range finders and designators

SENSORS

shot detectors, mine detectors, etc.

VIDEO TERMINALS

ANY EQUIPMENT THAT SUPPORTS ETHERNET AND USB PROTOCOLS

MAIN NETWALKER COMPONENTS

Component	Type	Quantity	Weight
Main batteries	Epsilor ELI-1614 flexible conformal battery or BB-2590 or MR-2791	2-3 units	2,000-3,000 gr
Power hub	Ruggedized 7 channel switch	1	450 gr
Cables	6" military cables	6	480 gr
USB hub	3 port USB Ruggedized hub	1	90 gr
Docking stations	Dedicated docking stations for electronic equipment	Up to 6	1,000 gr
Total weight			**4,020-5,020 gr**

Optional Items	Type	Quantity	Weight
Additional standard battery	A third ELI-1614 conformal battery	1	1,000
Solar panel	60W camouflage solar panel	1	1,300 gr
AC/DC adapter	100W AC/DC adapter kit	1	390 gr
Vehicle adapter kit	100W DC/DC vehicle adapter with lighter and direct connectors	1	390 gr
Total weight optional items			**3,080 gr**

ABOUT EPSILOR

Epsilor is the Defense and Aerospace activity of Epsilor-Electric Fuel Ltd. which forms part of Arotech Corporation's Power Systems Division (NASDAQ: ARTX). The division operates R&D and manufacturing facilities in the United States and in Israel.

Epsilor-Electric Fuel is a recognized world leader in the development and production of portable power products for the defense, aerospace, marine, medical and automotive industries. The product range includes batteries in a wide variety of electrochemistries, including Lithium Ion, Lithium Polymer, Nickel Metal Hydride and Zinc Air.

HOW CAN WE HELP YOU?

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