

WZRDnet Tactical Kit

WTK-350



- Network operates without infrastructure (i.e., no cell towers or satellites required)
- Free local area communications. You own the network.
- Ideal for austere environments (e.g., natural disasters, tactical deployments, rapid response, etc.)
- Stretches coverage of expensive VSATs, BGANs, Mobile Command Centers, etc.
- Handsets include embedded GPS receivers for friendly force tracking
- Range of 2km per hop with up to 32 hops per call
- 38 hour handset battery life
- Man transportable case containing equipment necessary for end-to-end communications
- Gateway provides connections to multiple Wide Area Networks (e.g., PSTN, VOIP, Wi-Fi, etc.)
- Gateway operates from AC and DC power sources.

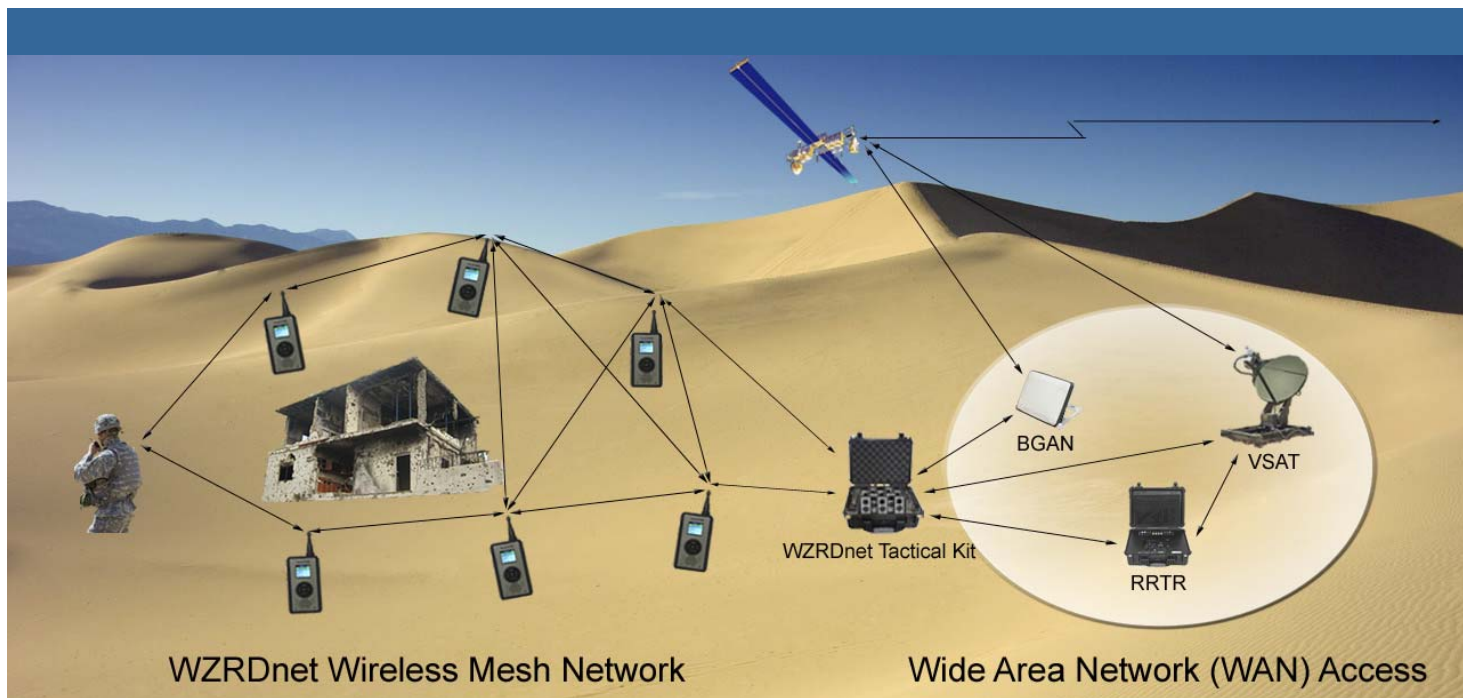


BRING THE NETWORK WITH YOU™

WZRDnet is a wireless ad-hoc mesh network that provides secure voice and data communications without the need for infrastructure (i.e., no cell towers or satellites required). In WZRDnet each handset is a router, relaying calls from originator to destination. Unlike other mesh networks, this architecture does not employ central routing tables thus avoiding single points of failure. WZRDnet is a low-power network that allows its light-weight handsets to provide service for 38 hours between battery recharges. WZRDnet is a true end-to-end packet switched network which facilitates straight-forward interoperability with Wide Area Networks (WANs) supporting peer-to-peer communications and direct dialing. This is accomplished via the WZRDnet Gateway which provides connectivity with any available IP network (e.g., Wi-Fi, VOIP, etc.), or analog network (i.e., PSTN).

The WZRDnet Gateway can interconnect with various WAN access systems like Very Small Aperture Terminals (VSATs), Broadband Global Area Network (BGAN) terminals, Rapid Response Tactical Routers (RRTRs), etc. It thus increases the availability of these access systems to network users that are not able to physically connect to or be in direct line-of-sight of these access systems. This clearly reduces cost by reducing the number of access systems required to cover a specific Area of Operations (AOO).

The WZRDnet Tactical Kit (P/N WTK-350) contains, in a single man-transportable case, all the equipment necessary to form a complete stand-alone voice, text and data network as well as provide WAN access. The Kit includes ten (10) Handsets, all ancillary equipment (e.g., earpieces, wall battery chargers, etc.), a Gateway for WAN access, and an AC/DC Power Supply to power the Gateway and recharge Handsets. The Kit can be held in storage until the need arises, and then be transported to the AOO and the Handsets distributed to users to form an instantaneous stand-alone network. At that point, if a WAN access system is available, the Gateway can be activated to provide all users access to the WAN.



Technical Specifications

WZRDnet Tactical Kit

Size:	18.50" x 14.00" x 7.00" - Man Transportable Case
Weight:	20lbs Including All Equipment
WAN Interfaces:	Wi-Fi 802.11 b/g
	Ethernet 10/100 Base-T (RJ-45 connector)
	RS232 Serial Port (DB-9 connector)
	Mini-USB Client Port
	USB 2.0 Full Speed (12 Mbps) Host
	RJ-11 Analog PSTN Interface (Qty 2)
Power:	88-264 VAC or 18-36 VDC
External Connectors:	AC Power Inlet, DC Power Inlet, USB Host, RJ-45, RJ-11 (Qty 2), Wi-Fi, WZRDnet
Included Equipment:	WGW-330(V)2 WZRDgate Gateway (Qty 1)
	WPS-351 AC/DC Power Supply (Qty 1)
	WHD-310(V)1 Handset (Qty 10)
	110VAC Wall Charger (Qty 10)
	Earpiece/ MIC with PTT Switch (Qty 10)
	Holster with Belt Clip (Qty 10)

WZRDnet

Operating Frequency:	2.4 GHz or 900MHz (unlicensed ISM band)
Network Protocol:	IEEE 802.15.4
Network Data Rate:	250Kbps
Encryption:	AES-128 with OTAR
Single Hop Range:	2km
Hops Per Call:	32
Handset Battery Life:	38 Hours (5/5/90 Duty Cycle)

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