

WIRELESS MESH HANDSET

WZRDnet WHD-310(V)2

 TELEGRID

- Network operates without infrastructure (i.e., no cell towers or satellites required)
- Free local area communications. You own the network.
- IP67 and MIL-STD 810G Rugged
- Ideal for austere environments (e.g., natural disasters, tactical deployments, rapid response, etc.)
- Handsets include embedded GPS receivers for friendly force tracking
- 38 hour handset battery life
- Peer-to-peer and talk group communications
- Color LCD screen with on-screen QWERTY and numeric keyboard
- Also available as part of the WZRDnet Tactical Kit (WTK-350) which includes a gateway for direct dialing with Wide Area Networks and the WZRDnet Command Center software.



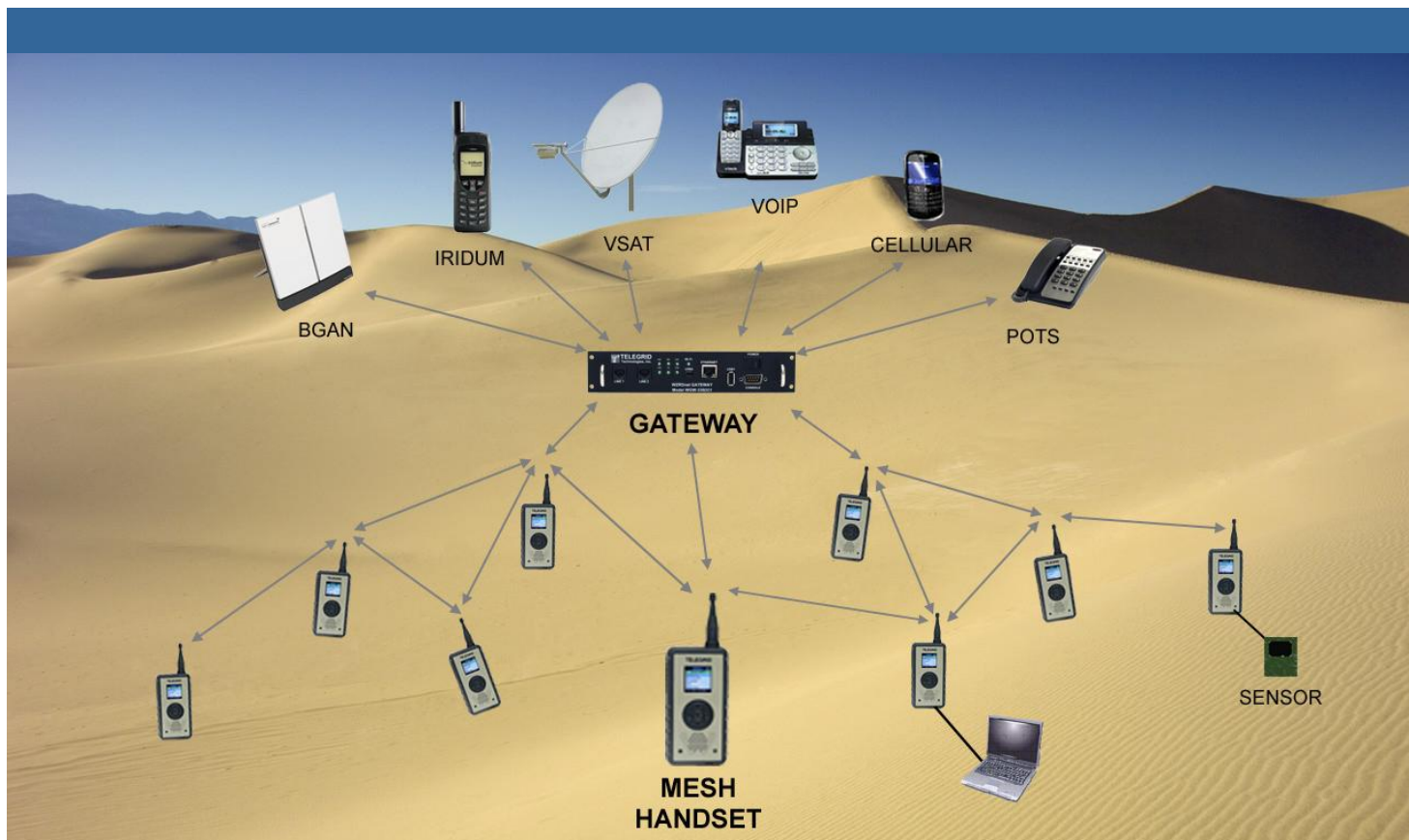
TALK WITHOUT TOWERS™

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 WHD-310(V)2 Handset design was focused on SWAP (size, weight and power). It provides four times the battery life as compared to commercial two-way radios at one quarter of the weight. Handset operation is accomplished via a color LCD display and menu-driven control buttons. This reduces training time and facilitates simple inclusion of specific customer applications at minimal cost. WZRDnet Handsets include embedded GPS receivers for friendly force tracking and situational awareness.

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Technical Specifications

Size:	Radio: 1.3 x 2.8 x 5.4 inches Antenna length: 2 inches
Weight:	0.6 lbs including batteries
Position Location:	Embedded GPS receiver
Real-Time Clock:	Includes GPS sync capability
Software Architecture:	Programmable/ Upgradeable via USB
Power:	Rechargeable Li-Ion Battery Pack AA Battery Pack (optional)
Battery Life:	>24 Hours
Charger:	USB port for wall charger or charge by PC
Headset:	Earpiece/ MIC with PTT Switch
Transmit Power:	60mw (18dBm)
Interfaces:	Mini-USB Client Port (Configuration/ Control)
Environmental Certifications:	IP67 Resistant Against Water and Dust MIL-STD-810G 501.5 High Temperature I,II MIL-STD-810G 502.5 Low Temperature I, II MIL-STD-810G 507.5 Humidity II MIL-STD-810G 509.5 Salt Fog MIL-STD-810G 514.6 Vibration MIL-STD-810G 516.6 Mechanical Shock I, II
Wireless Certifications:	FCC: XAYWHD310V2 IC: 9251A-WHD310V2
Network Protocol:	IEEE 802.15.4
Network Data Rate:	250Kbps
Encryption:	AES-128 with OTAR
Operating Frequency:	2.4 GHz or 900 MHz (unlicensed ISM band)

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