WIRELESS MESH REPEATER
WZRDnet WRN-320(V)2

TELEGRID

- Extends Reach of the WZRDnet Low-Power Wireless Mesh Network

- Available in 3 versions - AC, DC, and Solar Powered

- Ideal for permanent installations or short term deployments

- Easily mountable in hallways, tunnels or outdoors

- Wirelessly programmable via the WZRDnet Command Center software

- Internal rechargeable Lithium Ion backup battery with 50 hour battery life

- Attach an amplifier or directional antenna for increased range (check local wireless regulations)

TALK WITHOUT TOWERS™

The WRN-320(V)2 Repeater provides extended coverage for the WZRDnet Network. The Repeater can be easily mounted on a wall or mast for added network assurance. It is a small, lightweight device making it an ideal solution for both permanent and temporary needs. It can be wirelessly programmed via the WZRDnet Command Center or connected to a PC via its mini-USB port. It is powered by either AC, DC or solar power but includes an internal Lithium-Ion battery for portable applications including anti-piracy operations and disaster relief.

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).

AC/DC Version Actual Size

Technical Specifications

Versions:	AC Repeater: WRN-320(V)2-AC DC Repeater: WRN-320(V)2-DC Solar Repeater: WRN-320(V)2-SL
Size:	AC/ DC Repeater: 3.3 x 6.5 x 1.6 inches Solar Repeater: 11 x 8.5 x 3.5 inches Antenna length: 6 inches
Weight:	AC/DC Repeater: 0.8lbs including battery Solar Repeater: 16lbs including battery
Operating Frequency:	2.4 GHz or 900 MHz (unlicensed ISM band)
Charger:	WRN-320(V)2-AC: 90-264 VAC WRN-320(V)2-DC: <15VDC
Transmit Power:	100mw (20dBm)
Operating Temperature:	-20 to 60°C (battery limit)
Physical Interface:	Mini-USB Client Port (Troubleshooting)
Network Protocol:	IEEE 802.15.4
Network Data Rate:	250Kbps
Encryption:	AES-128