Crisis Response

Cisco Line of Sight (LOS) Kit

Ultra Reliable Backhaul Link

Point to Point and Multipoint Topologies

Overview/Summary

The Cisco Line of Sight kit provides line-of-sight wireless data connectivity in point to point (PtP) or point to multipoint (PtMP) scenarios for disaster response missions. Technical teams can use this kit to distribute WAN / backhaul connectivity or extend a LAN beyond the distance limitations of wired Ethernet, or where the use of such copper or fiber cabling is impractical (e.g. between distant buildings or across active foot or vehicle paths). The Line of Sight Kit is a standalone, high throughput and long-distance wireless solution that uses the Cisco Ultra Reliable Wireless Backhaul solution to address the shortcomings of Wi-Fi based mesh solutions.

Key Features/Benefits

The Line of Sight Kit is designed to provide network speeds of approximately 500 megabits per second at ranges up to 1 kilometer, though further distances are possible with a corresponding reduction in speed. Integrated directional antennas and cloud management using Cisco IoT Operations Dashboard (IoT OD) make rapid deployment easy; additional antenna options within the case provide flexible network topologies, such as when a building or hill prevent direct line of sight and require 3 radios for a network extension. Use of standards-based Power over Ethernet - 802.3at (PoE+) and 802.3af (PoE) guarantee high levels of compatibility with typical enterprise networks and power accessories.

Architecture/Technology

The LOS Kit includes four (4) Cisco Catalyst IW9165D Heavy Duty Access Points for wireless backhaul. Each radio has an IP67 design for wet, dusty, and extreme conditions. These access points run in non-Wi-Fi mode with Cisco Ultra-Reliable Wireless Backhaul (URWB) software and are registered with Cisco IoT Operations Dashboard, a cloud-based platform for

LOS kit deployed at a wildfire response

Packed LOS Kit, Ready for Deployment

Use Cases/Who Needs This?

Incident communications teams can use the LOS kit to restore communications in situations where existing cable infrastructure has been damaged or destroyed, due to fire or natural disasters. Temporary deployments where cable is impractical or impossible are also good fits for the LOS kit and industrial certifications in the IEC/EN 61000 series (details in the IW9165D data sheet) ensure compliance with common requirements in the Energy and Utility sectors.

Why Cisco?

Cisco offers an industry-leading portfolio of technology innovations. With networking, security, collaboration, cloud management, and more, we help to securely connect industries and communities.

Cisco is committed to putting people, technology, and resources toward Powering an Inclusive Future for All, where everyone has the opportunity to thrive.
Cisco Crisis Response leverages our people, technology, and financial resources to support nonprofit and emergency response partners that are working tirelessly on disaster preparedness and response.

Learn More

To engage any of the other services provided by Cisco Crisis Response, please contact your Cisco account team. For more information about the Cisco Crisis Response, please visit our website: http://www.cisco.com/go/crisisresponse, or send email to crisisresponse-info@cisco.com