Crisis Response

Cisco Emergency Communications Kit Small Form Factor (ECK SFF)

Rugged & Secure Design

Integrated Power for On-the-go Use

Flexibility Use Integrated LTE, Wi-Fi & Ethernet

Overview/Summary

The Cisco Emergency Communication Kit (ECK), Small Form Factor (SFF) is a portable, ruggedized solution designed to establish secure voice and data communications in austere environments. It is ideal for first responders, emergency managers, and critical infrastructure operators who require highly portable, reliable communications suitable for small or medium-sized networks in the wake of a disaster.

The latest in a long history of preconfigured deployable networks, the ECK SFF is a powerful standalone network solution that has been updated to include Cisco Industrial Networking and partner products for new levels of durability and mobility, packaged across two rugged cases.

Key Features/Benefits

Flexible Connectivity: Supports integrated LTE/5G (up to 3.3 gigabits download), Wi-Fi as WAN (up to 1.2 Gbps), and Ethernet for diverse backhaul options (Starlink, VSAT, broadband, etc.). Provides wired (Gigabit Ethernet, PoE/PoE+ up to 60W) and wireless (802.11ax Wi-Fi via integrated module, with an Enterprise Embedded Wireless Controller supporting up to 16 WLANs/50 APs) access for users.

Ruggedized & Portable Design: Built with industrial networking components (IR1835 router, IE3300 switch, IW9165E/WIM APs) optimized for harsh environments (IP30+, extended temperature ranges, fanless, hardened against vibration/shock). Packaged in two portable cases including integrated power for optional on-the-go operation.

Flexible Power Options: Designed to operate on external AC or DC power sources, including grid, generator, inverter, solar, or battery-based solutions, suitable for deployments with only basic electrical infrastructure.

Advanced Security: Integrates with the Cisco Secure Connect cloud service for comprehensive security including Cloud-delivered Firewall, IPS/IDS, Secure Web Gateway, DNS Security, CASB, and DLP, updated in near real-time by Cisco Talos.

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Architecture/Technology

The ECK SFF solution is built around key Cisco components housed in two rugged cases. The primary case features a Cisco Catalyst IR1835 Rugged Series Router for secure routing and WAN connectivity (LTE/5G, Ethernet, Wi-Fi as WAN) packaged in a purpose-built, TSA-compatible wheeled case with 6+ hours of integrated battery power. The secondary case includes scaling options such as a Cisco Industrial Ethernet 3300 Rugged Series Switch for additional wired LAN access, an Industrial Wireless 9165E Access Point, cable and antenna for diverse mission requirements.

User Wi-Fi is provided by an integrated Cisco Wi-Fi Interface Module (WIM) running an Embedded Wireless Controller. Internet and public cloud bound user traffic is secured by the Cisco Secure Connect cloud platform for advanced threat prevention. As an option, the kit can be centrally managed via the Cisco Catalyst SD-WAN Manager cloud service, providing a unified dashboard for configuration, monitoring, and remote access.

Use Cases/Who Needs This?

The ECK SFF is designed for organizations and personnel operating in environments where traditional communication infrastructure is unavailable, damaged, or unreliable. Incident communications specialists can establish immediate communication during disaster relief efforts in remote or austere field locations. Critical Infrastructure operators (e.g., Energy Sector) can improve resilience and communications using equipment that is certified for hazardous locations. Organizations with a regulatory requirement or preference for traditional networking with on-box management may also find the ECK SFF a useful option.

The kit serves as a suitcase-sized "network in a box" to address the challenges faced by agencies operating in areas severely lacking telecommunications infrastructure, often used in the acute phase of emergencies.



Case A



Case B

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 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”

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