

SOLUTION BRIEF

Fortinet and Parsec Emergency Connectivity Kit

Secure, Portable Connectivity for Mission-Critical Environments

Assembled and Tested by TD SYNnex Integration Labs

Executive Summary

The Fortinet and Parsec Emergency Connectivity Kit (ECK) delivers secure, high-performance communications when and where they matter most. Purpose-built in TD SYNnex Integration Labs, the ECK integrates Fortinet's advanced security, networking, and wireless technologies with Parsec's rugged case and high-performance patented antenna technology to create a rapidly deployable, all-in-one mobile connectivity platform for emergency response, tactical operations, and critical infrastructure continuity.

The Challenge

When disaster strikes or infrastructure fails, communication lifelines often disappear. Organizations responsible for emergency management, defense, logistics, and critical infrastructure operations can face communications blackouts due to disasters, infrastructure damage, or remote locations beyond the reach of traditional connectivity. They need secure, portable, and flexible connectivity solutions that can bridge cellular, satellite, and Wi-Fi networks in minutes, without reliance on fixed assets. These systems must maintain compliance, visibility, and performance under harsh, unpredictable conditions, even without traditional connectivity.

Joint Solution

Fortinet and Parsec have partnered to deliver the Emergency Connectivity Kit, a self-contained, portable, secure networking solution designed to sustain communications in mission-critical environments. Built through Fortinet's Open Fabric Ecosystem, the ECK integrates Fortinet solutions into two Parsec models. The Bloodhound model provides effortless, secure mobile connectivity wherever it's needed, thanks to a slim form factor. The Pitbull model is built to handle the most demanding mobile needs, supporting the industry's highest security and networking performance for the best user experience by providing both 5G cellular and satellite connectivity.

Solution Integration

The Parsec Pitbull ECK is a carry-on-compliant, rapid-deployment communications platform engineered for field operations that require secure connectivity anywhere.



Figure 1: Pitbull case

Solution Components

Fortinet:

FortiGate Rugged 70G-5G-DUAL

Ruggedized next-generation firewall (NGFW) combines ASIC-powered performance, plus dual 5G radios, SD-WAN, and zero-trust security enforcement for a secure, holistic mobile solution.

FortiExtender Vehicle 511G (FEV-511G)

Ruggedized 5G/LTE mobile router with eSIM support, plus dual-physical SIM slots, access control lists (ACLs), and VxLAN extensions that provide secure, carrier-diverse connectivity to the cellular network as well as Wi-Fi 6, all in a slim form factor.

FortiAP 243K

Secure Wi-Fi 6 access point designed to provide high-performance, policy-enforced wireless coverage in the field.



At the heart of the Pitbull is the FortiGate Rugged 70G (FGR-70G), a rugged NGFW that combines Fortinet's dual 5G radios, SD-WAN intelligence, and zero-trust enforcement in a compact, rugged case. It is the central networking and security gateway of the kit. The FGR-70G orchestrates multiple WAN paths simultaneously: 5G/LTE, Starlink satellite, and Wi-Fi uplinks into a single resilient network under the Fortinet Security Fabric.

FortiAP 243K provides secure Wi-Fi 6 access for laptops, tablets, IoT, and mobile devices, delivering high-performance wireless coverage in the field, all managed and secured through the central FortiGate policy enforcement. Parsec's Pitbull case with integrated high-gain antenna technology extends and enhances cellular performance through dual 4x4 MIMO arrays. At the same time, its integrated Starlink Mini mount supports hybrid satellite backhaul for total geographic coverage. All traffic flows are encrypted and inspected by the FortiGate, maintaining compliance and policy enforcement whether connected through Starlink, LTE, or 5G.

Pitbull's 5G and satellite integration enables instant network deployment in under five minutes with preconfigured security and routing policies. Its all-in-one design supports secure operations for disaster recovery, continuity of government, emergency management, and critical infrastructure response.

The Parsec Bloodhound ECK is a rugged communications system purpose-built for mobile command, emergency fleets, and field units requiring persistent, high-bandwidth connectivity on the move. Its core architecture centers on the FortiExtender Vehicle 511G, a ruggedized 5G/LTE router that provides carrier-diverse 5G/LTE connectivity via Parsec's patented high-gain antenna technology. Designed to function as a dependable mobile WAN node, it provides a resilient connection back to the cellular network.

FortiExtender supports 5G eSIM for effortless carrier subscriptions and plan management. Dual-physical SIM slots are also included on its single 5G radio, providing multicarrier failover in an active-passive setup. FortiExtender also includes embedded Wi-Fi 6, enabling unified wireless WAN and Wi-Fi in a single device, resulting in a slimmer overall form factor. Advanced threat protection from FortiGuard Labs is available when FortiExtender is managed by a remote FortiGate with an active subscription. FortiExtender can also be managed as a standalone on-premises device or in the cloud, supporting enterprise-scale deployments.

Solution Components (cont.)

Parsec Technologies:

Bloodhound case and Pitbull case

- Omnicharge Ultimate+ custom battery
- Integrated antenna technology
- Bronze-level service agreement

*Customer supplied component or service

Solution Benefits

- Rapidly deploy secure wireless WAN and access in remote or disaster zones
- Unifies management across cellular, satellite, and Wi-Fi
- Drastically reduce downtime and operational costs
- Seamless SD-WAN orchestration across all link types
- Ruggedized and reliable design, engineered for demanding conditions
- Secure by design, enforcing zero-trust and end-to-end visibility

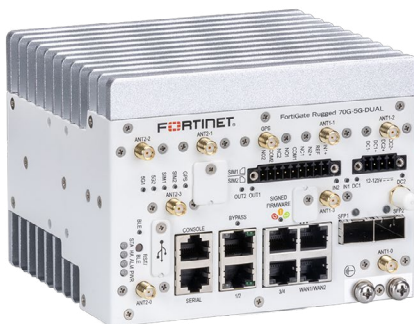


Figure 2: FortiGate Rugged 70G-5G-DUAL



Figure 3: FortiExtender Vehicle 511G

Bloodhound's ruggedized case, combined with Parsec's integrated antenna technology, maximizes RF performance even in harsh weather or low-signal areas. This configuration provides a mobile SD-WAN node that securely connects to headquarters, cloud resources, or other ECK deployments. The Bloodhound excels in law enforcement, emergency services, utilities, and defense logistics, where mobility, reliability, and policy-driven control are mission-critical.

Solution Components

Parsec Bloodhound

A rugged, portable 5G solution for secure, easily portable connectivity. Built for high-performance field operations, the Bloodhound is a portable 5G case antenna with up to 13:1 configuration. It supports the full 5G spectrum (600 MHz to 6 GHz) and is ideal for first responders, surveillance and covert ops, and communications in compromised zones.



Features

- Shock-absorbing, impact-resistant resin
- Field serviceable and easy deployment
- Rugged design for harsh environments
- TSA-approved case
- 4X4 MIMO cellular
- 2X2 MIMO Wi-Fi

Compatible with FirstNet Band 14/N14Kit components

- FortiExtender Vehicle 511G
- Custom Parsec Bloodhound case, which includes an Omnicharge Ultimate+ custom battery

Note: SIM cards are not included and must be provided by the customer.

All FortiExtender devices can be managed on-premises, in the cloud, or from a remote FortiGate with FortiManager.

Parsec Pitbull

A satellite and cellular hybrid solution made for extending wireless connectivity in emergencies. Pitbull integrates Starlink satellite internet with 5G cellular and Wi-Fi in a compact, carry-on case. Perfect for disaster relief and enterprise failover scenarios.



Features

- Dual 4X4 MIMO cellular
- 4X4 MIMO Wi-Fi
- Starlink Mini mount (dish sold separately)
- AC dual-powered case with battery backup for failover
- Rugged carry-on size case
- Compatible with FirstNet Band 14/N14
- TSA-approved case

Kit components

- FortiGate 70G-5G-DUAL
- FortiAP 243K
- Custom Parsec Pitbull case, including the Omnicharge Ultimate+ custom battery

Note: SIM cards and Starlink Mini satellite internet dish are not included and must be provided by the customer.



Figure 4: Pitbull and Bloodhound cases

ECK Use Cases

Use Case #1: Emergency Response Communications

Field teams establish secure, high-speed connectivity for command, control, and coordination during emergencies

Use Case #2: Mobile Infrastructure Continuity

Temporary or mobile operations maintain WAN access and policy control during outages or relocations

Use Case #3: Tactical and Defense Operations

Ruggedized deployment for mission teams requiring encrypted communications and mobility

Use Case #4: Utility and Critical Infrastructure Support

Restoration crews and SCADA technicians maintain secure field connectivity during outages or upgrades

Use Case #5: Continuity of Government

Portable or vehicle-mounted kits sustain operations and data access during emergencies or natural disasters

Use Case #6: Media, Elections, and Public Events

Secure, reliable connectivity for mobile broadcast units, polling locations, and emergency shelters

Comparing the Pitbull and Bloodhound ECK Components

Pitbull and Bloodhound provide the same trustworthy Fortinet technology, but the setups serve distinct, critical roles in securing and connecting the field network.

Feature	Pitbull	Bloodhound
Primary Function	High-performance mobile branch solution combining ASIC-powered FortiGate, FortiAP, and more	Flexible, convenient mobile branch solution combining 5G/LTE wireless WAN and Wi-Fi via a single FortiExtender
Key Role in Network	The centralized brain or hub of the network. FortiGate enforces security policies, DPI, manages traffic, and handles routing and SD-WAN at unmatched performance.	A mobile, remote spoke or thin edge device. FortiExtender provides physical connectivity (WAN link) to the cellular network and can be managed by a remote FortiGate for enhanced security via VxLAN over IPsec.
Security Capabilities	On-premises: Full Security Fabric integration, zero-trust network access, firewall, VPN, intrusion prevention, and traffic inspection accelerated with custom silicon.	Extended: FortiExtender, as a standalone device, is a mobile router with ACLs. FortiExtenders can be remotely managed by FortiGate and can leverage advanced security in this setup.

Feature	Pitbull	Bloodhound
SD-WAN	Fully functional SD-WAN, including Layer 7 application steering and QoE capabilities. Integrates FortiAP for additional service capabilities.	Users can switch cellular carriers or wired connections based on loss, latency, and jitter metrics, as well as data plan caps and service interruptions.
5G/LTE	Dual 5G/LTE radios are integrated for active-active setups.	Supports eSIM and a single 5G radio with dual physical SIM slots for active-passive setups.
Typical Use	Centralized networking and security for rugged environments, mobile platforms, and remote sites.	Low-cost, secure connectivity in emergency, mobile, and field sites.

About Parsec Technologies

Parsec Technologies designs and manufactures high-performance antennas engineered for enterprise, government, and industrial applications. Known for innovation in multi-MIMO cellular and Wi-Fi antenna systems, Parsec provides rugged, reliable connectivity solutions optimized for 4G and 5G networks, supporting mission-critical and mobile operations worldwide.

parsec-t.com

About TD SYNnex

TD SYNnex (NYSE: SNX) is a leading global distributor and solutions aggregator for the IT ecosystem, providing technology insight, integration, and field validation services across more than 150 countries. TD SYNnex Integration Labs deliver turnkey, mission-ready solutions combining best-of-breed technologies to meet the most demanding operational requirements.

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About Fortinet

Fortinet is a driving force in the evolution of cybersecurity and the convergence of networking and security. Securing people, devices, and data everywhere is our mission. To that end, our portfolio of over 50 enterprise-grade products is the largest integrated offering available, delivering proven cybersecurity everywhere you need it. More than 890,000 customers trust Fortinet solutions, which are among the most deployed, most patented, and most validated in the industry.

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