

Compact Rapid Deployable (CRD™) for FirstNet



Features

- FirstNet range up to 2 miles
- Wi-Fi hotspot up to 500 feet
- Supports up to 1,000 connected devices
- Provides high-speed satellite internet via Viasat and Starlink
- Weatherproof and waterproof
- FirstNet MegaRange™ High Power User Equipment (HPUE) compatible



Use cases

- Emergency response
- Remote internet connectivity
- Operations continuity and recovery
- Internet service restoration
- Connectivity to other units
- Support for VoIP, RoIP and IoT
- Public Safety Access Points (PSAPs) or dispatch backup

Cellular and internet connectivity. Anywhere. Anytime.

Overview

The Compact Rapid Deployable (CRD™) for FirstNet® delivers cellular and internet connectivity where Wi-Fi or FirstNet cellular coverage isn't available. Equipped with both a Viasat® GEO Satellite and a Starlink® High-Performance Flat Panel Satellite, it provides priority access to affordable and reliable backhaul options.

The CRD supports up to 1,000 simultaneous FirstNet connections and delivers high-speed Internet via Wi-Fi or Ethernet. It can be purchased and operated by any FirstNet-eligible customer. CRDs are compact and easy to store indoors. They:

Delivers internet and cellular service when and where you need it

Can connect using multiple backhaul pathways

Single-person deployment with no lifting

Easily transportable by a single person on any 2" Class 3 or higher trailer hitch with no lifting required to mount or dismount

User-friendly, intuitive and affordable

Simple "push-to-deploy" technology with an auto-acquiring satellite system



Benefits

- Functions as a fully functional FirstNet Cell on Wheels (COW)
- Provides cloud access
- Operates directly at the incident site
- Supports flexible use cases beyond FirstNet
- No special training required
- Supports both Low Earth Orbit (LEO) and Geostationary Orbit (GEO) satellites

Overview

The CRD is designed for easy **transport** and deployment. It can roll through standard doorways and fit into most elevators. CRDs mount to any 2-inch Class 3 or higher trailer hitch without requiring vehicle modifications.

Unlike a traditional trailer, the CRD rides wheels-up like a cargo carrier instead of being towed. This design allows it to travel anywhere the SUV or truck can go and eliminates ongoing trailer costs such as registration, licensing and insurance.

Deployment

The CRD isn't just a cell tower – it's designed to perform many functions and you can deploy it in various ways. It uses several pathways to communicate with the internet and the outside world. This is generally called a **Wide Area Network** (WAN). In the cellular industry, it's known as backhaul.

The **Ericsson Cradlepoint router** manages this traffic and can use:

- Ethernet (wired internet)
- Wi-Fi from another source
- High speed satellite service
- Cellular network SIM cards to connect with any operational towers

You can use different SIM cards depending on which local towers are available. And you can swap them using a screwdriver. Step-by-step instructions are available in the owner's manual and user guides.

The CRD also communicates through a Local Area Network (LAN).

Warning: You can't simultaneously transmit FirstNet cellular from the CRD while FirstNet SIM cards are in the Cradlepoint router. Use FirstNet SIM cards only when providing Wi-Fi and/or wired Ethernet with the FirstNet cell tower radio off.

CRD for FirstNet



SIM card usage

SIM cards are small chips with a unique ID, phone number and account data that link to a cellular provider. In the CRD, SIM cards in the Cradlepoint modem connect to local cellular towers to provide data to the unit.

The CRD also can function as a local cellular tower. Using the onboard Single Band Outdoor (SBO) FirstNet cellular radio (Band 14), it can transmit a FirstNet cell signal. When the mast and antenna are deployed, the CRD effectively becomes a local FirstNet cell tower.

Disaster response

When a hurricane, fire, flood, earthquake, tornado or terrorist event disrupts FirstNet cellular service, deploy a CRD to restore connectivity. If there is no internet or network available, the system uses high-speed satellite service to provide internet to FirstNet devices. FirstNet cell phones and devices within 2 miles function normally. Non-FirstNet devices and phones within 500 feet can connect to Wi-Fi and make calls using Wi-Fi calling.

During a wildfire, deploy CRDs to each branch, division or drop point. For the first time, personnel can view daily safety briefings, download Internet Access Points (IAPs) and maps, make calls, send and receive email and texts, and submit logistics requests in the field – improving safety, efficiency and morale.

Planned events

For remote operations or events outside normal cell coverage – such as a temporary hospital, concert or festival, wildfire base or remote law enforcement operation – transport the CRD using any trailer hitch. Use a 4WD vehicle if rough terrain access is needed. Within 15 minutes of arrival, the CRD can provide a FirstNet cell site and Wi-Fi hotspot. Its generator and expanded fuel system support up to 60 hours of continuous operation before refueling.

Continued operations

If a fiber-optic cable is cut and your building loses internet and Wi-Fi, deploy the CRD to the parking lot. Connect to the FirstNet cellular network using its onboard antennas, then run an Ethernet cable from the CRD to your building's router. This restores your internet, Wi-Fi and VoIP phone service, allowing work to resume.

In the event of a physical or cyber attack that disrupts communications, deploy the CRD to establish a high-speed satellite-backhauled network within minutes. FirstNet service and internet can be restored to PSAPs, Internet Connectivity Points (ICPs), hospitals and offices. Plug into shore power for weeks of continuous operation until terrestrial services return.



4 standard configurations + use cases

1 Terrestrial backhaul (WAN) – Satellite OFF FirstNet mast/radio OFF

Used in areas with a reliable internet or cellular connection. The CRD connects via building Ethernet, local Wi-Fi or FirstNet SIM cards in the Cradlepoint router to provide wired Ethernet and Wi-Fi to users. The satellite terminal and mast are not required.

WAN

- Ethernet (wired Internet)
- Wi-Fi as WAN
- Cellular – FirstNet SIM card(s) installed in modem

LAN

- Ethernet (wired Internet)
- Wi-Fi
- Cellular – supports Wi-Fi calling for any network

Examples:

- Wi-Fi hotspot using building Ethernet backhaul
- Wi-Fi hotspot using FirstNet cellular backhaul
- Building internet restored using FirstNet cellular backhaul

3 Terrestrial backhaul (WAN) – Satellite OFF FirstNet mast/radio ON

Used in areas with a reliable internet or cellular connection. The CRD connects via building Ethernet, local Wi-Fi or FirstNet SIM cards in the Cradlepoint router to provide wired Ethernet and Wi-Fi to users. The satellite terminal and mast are not required.

WAN

- Ethernet (wired Internet)
- Wi-Fi as WAN
- Cellular – FirstNet SIM card(s) installed in modem

LAN

- Ethernet (wired Internet)
- Wi-Fi
- Cellular – supports Wi-Fi calling for any network

Examples:

- Wi-Fi hotspot using building Ethernet backhaul
- Wi-Fi hotspot using FirstNet cellular backhaul
- Building internet restored using FirstNet cellular backhaul

2 Satellite backhaul (WAN) – Satellite ON FirstNet mast/radio OFF

Used when terrestrial internet and LTE service are unavailable. The dual high-speed satellite terminals provide WAN connectivity and the CRD supplies Ethernet and Wi-Fi. The mast and radio are not needed.

WAN

- Viasat high-speed satellite
- Starlink high-speed satellite
- FirstNet SIM cards installed in modem

LAN

- Ethernet (wired Internet)
- Wi-Fi

Examples:

- Wi-Fi hotspot using satellite backhaul
- Building internet restored using satellite backhaul

4 Satellite backhaul (WAN) – Satellite ON FirstNet mast/radio ON

Used when terrestrial internet and LTE service are unavailable. The dual high-speed satellite terminals provide WAN connectivity and the CRD supplies Ethernet and Wi-Fi. The mast and radio are not needed.

WAN

- Viasat high-speed satellite
- Starlink high-speed satellite
- FirstNet SIM cards installed in modem

LAN

- Ethernet (wired Internet)
- Wi-Fi

Examples:

- Wi-Fi hotspot using satellite backhaul
- Building internet restored using satellite backhaul

Note: The satellite may be used in all configurations. If other WAN sources are present, the Cradlepoint router places the satellite in ready standby. If the primary WAN source fails, the satellite automatically connects as the WAN source.

External

- Dimensions: 62" H x 68" L x 31" W
- White powder-coated finish
- "FirstNet, Built with AT&T" logos (front and back)
- NEMA 4X/IP66 compliant electronics enclosure
- 400 BTU solid-state AC/heater
- Enclosure and generator compartment locks
- DOT-compliant LED stop, turn and tail lights
- Illuminated license plate mount
- LED scene lights on 4 sides
- Solid core never-flat tires
- Hydraulic disc brakes with parking brake
- 5m fiberglass telescoping mast with guy lines

Power system

- Up to 60 hours of off-grid runtime (240 hours with generator/battery cycling)
- Shore power and generator AC Inputs
- 50' AC power cord
- 12 VDC power input (vehicle, battery, solar)
- Honda 2200-watt inverter generator with Bluetooth
- 6-gallon auxiliary gas tank with auto-feed system
- Battery and ICU system (inverter/charger/UPS)
 - » 52 Ah "Smart" LiFePO battery
 - » 50 A microprocessor battery charger/manager/UPS
 - » 1,000W pure sine wave inverter with AC pass-through
- Power control module (PCM)
 - » Power management switches, breakers, fuses
 - » Digital battery monitor with Bluetooth
 - » Alarm system - visual/audible with email/text alerts
- Internal panel power ports
- 120 VAC and USB
- Surface wire ground kit with lightning protection

Temperature

- Cold start: -20° to 50° C (-4° to 122° F)
- Operating: -30° to 50° C (-22° to 122° F)

Other

- 1-year manufacturer warranty
- Accessory bag included
- Keys
- Owner's manual

Shipping

- Ships via pallet (common carrier)
- Dimensions: 40" W x 80" L x 60" H
- Weight: up to 750lbs
- Forklift or lift gate required

Communications and Connectivity

- **FirstNet Ericsson eNodeB (Band-14)**
 - » Future 5G capable
 - » Up to 2-mile range
 - » Connected to 6 dBi high-gain mast-mount antennas
- **Cradlepoint R1900 5G router (FirstNet Ready)**
 - » Local and cloud-based NetCloud Manager
 - » 5-year, 24/7/365 support
 - » 5-year hardware warranty
 - » Dual 5G modem capable – (1 modem supplied)
 - » SD-WAN with auto failover/failback
 - › Wired Ethernet
 - › Wi-Fi as WAN
 - › LTE WAN (customer-provided SIMs)
 - › SATCOM
- **Antennas**
 - » Panorama 10-in-1: MIMO-LTE/Wi-Fi/GPS
 - » 2 high gain Band14 LTE mast-mount antennas
- **SATCOM (data plans purchased separately)**
 - » Winegard WV750P one-touch auto acquire Ka-Band VSAT terminal
 - › Viasat satellite data plans available with Rescue 42
 - › Emergency response plans available with Priority QoS
 - › Single CRD plans for individual terminals
 - › Pooled plans available for multi-CRD usage
 - › Remote terminal deployment system – 100' Cables
 - › Manual compass and bubble for emergency alignment
 - » Starlink high-performance terminal
 - › High-speed mobile priority data
 - › Service can be paused
- **User access (LAN)**
 - » FirstNet Band 14
 - » 2x2 MU-MIMO 802.11 ax Wi-Fi 6
 - » Wired Ethernet & VoIP Capable
 - » Wi-Fi calling compatible with most mobile phones
 - » 16-port keystone jack patch panel
 - » Waterproof Ethernet exterior bulkhead panel



877-288-9611

RESCUE 42 PHONE SUPPORT

Rescue 42 provides 24/7/365 phone support for devices covered by warranty or maintenance and support plans.

CRD price

- To request a quote, contact: deployables@rescue42.com or 888-427-3728 ext. 2
- Includes free delivery within the 48 contiguous United States
 - » Ka-Band FirstNet CRD terminal is operational in the contiguous United States, Hawaii and part of Alaska
 - » Non-contiguous states incur additional shipping charges
- Customer provides satellite data plan, SIM card(s) and optional second Cradlepoint modem

First responder Ka-Band satellite data plans (Viasat)

- Customer establishes their own Viasat satellite data plan
- Authorized resellers:
 - » **Rescue 42** – To request a quote, email deployables@rescue42.com or call 888-427-3728 ext. 2
 - » **Expedition Communications** – To request a quote, email sales@expeditioncommunications.com.
 - » Rescue 42 transactions are handled separately and are not billed on AT&T paper at this time.
 - » Expedition Communications bills customers on AT&T paper.
- First responder data plans provide high-priority satellite access on the Viasat satellite system
- High-priority satellite supersedes/preempts aviation, commercial and home users
- SLA: 18 Mbps downlink x 5 Mbps uplink; bursts may exceed 30 Mbps x 10 Mbps.
- No throttling or shut-off if annual data limit is exceeded

LEO satellite data plans (Starlink LS+)

- Authorized resellers:
 - » **Starlink** – Current pricing available at: starlink.com/business/mobility.
 - » **Expedition Communications** – To request a quote, email sales@expeditioncommunications.com. Expedition Communications bills customers on AT&T paper.
- LinkShelf Plus (LS+) is operational anywhere with Starlink coverage, including land and ocean

Annual OPEX Cost

- Overage billing for major incidents can be charged to the incident budget
 - » Incident billing resets the annual data plan
 - » Most training events test satellite briefly, then switch to LTE backhaul
- Larger pooled data plans allow multiple CRDs nationwide to share the same data plan, with one annual bill for all CRDs; all plans must be pre-paid
- Most data usage comes from recreational video viewing and gaming; managing this recreational usage can help ensure that a lower annual data plan is sufficient for most agencies
- The CRD for FirstNet is available to purchase on the following AT&T contracts:
 - » NASPO VALUEPOINT (MA149-1)
 - » NPPGov Master AGID: 9145742
 - » Sourcewell: 080119-ATT
- AT&T Capital Finance lease options are available
- Federal, state and foundation grants are available to agencies to help cover the cost of the CRD for FirstNet



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Maintenance and Support

CRD for FirstNet

In the critical moments of an emergency, every second counts. Teams must remain focused on the incident at hand rather than technical issues with a deployable.

A maintenance and support plan extends the expertise of Rescue 42's telecommunications engineers 24/7/365, simplifying overhead and ensuring reliable, budgeted coverage when and where it's needed most.

Prepaid Annual Comprehensive Plan

\$4,499.99/year

- 24/7/365 phone support
- Troubleshooting and repairs (parts not included)
- 1 scheduled annual maintenance visit or 1 emergency on-site visit
 - » Next business day response (M-F/8-5 PST)
 - » On-site visit if unable to resolve remotely
- Available in the contiguous United States

Unprotected support

- Hourly virtual support
 - » \$100/hour after the initial 15 minutes (M-F/8-5 PST)
 - » \$150/hour after hours, weekends and holidays
- Emergency on-site visit: \$3,000.00 minimum

Prepaid Annual Virtual Support

\$2,000.00/year

- 24/7/365 phone support
- Troubleshooting and repairs (parts not included)
- Available anywhere CRD is sold

Training plans

Operation of the CRD requires a baseline knowledge of its components. On-site CRD training equips teams to deploy and operate the unit autonomously in the field. Training is tailored to the specific CRD configuration.

Overview

- Up to 4 hours at the specified location.
- Training covers systems operation, transport, storage and basic troubleshooting
- Training documentation and resources provided
- Up to 10 personnel per training

CRD for FirstNet on-site training

\$4,499.99

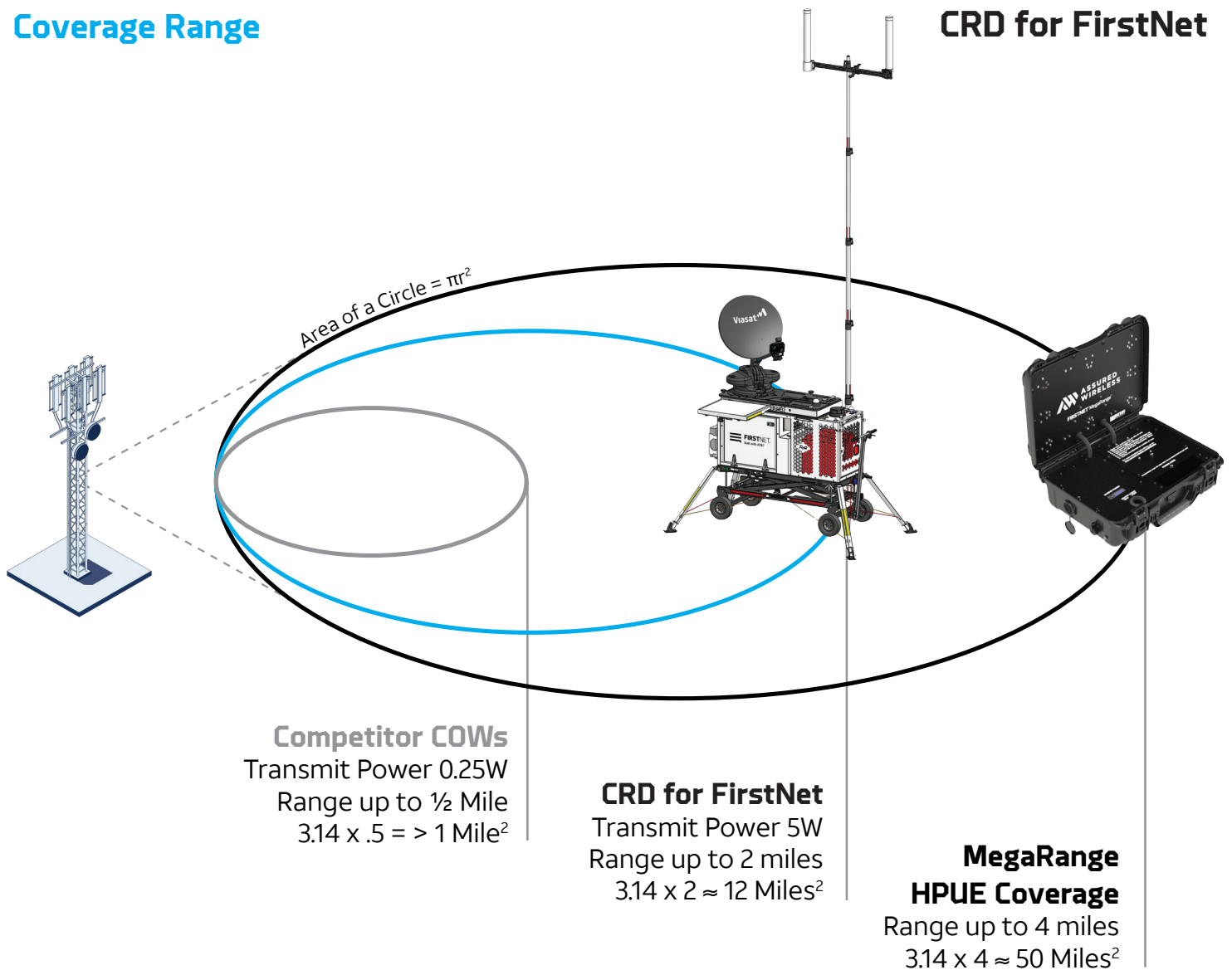
- Standard scheduling: 2-week turnaround
- Service/support and training plans in Hawaii, Alaska and Pacific Territories require a quote
- Rush training (less than 2 weeks) incurs an additional fee
- Back-to-back sessions or teams larger than 10 require an additional charge

Training includes:

- Loading and unloading from a vehicle
- Stabilizing the CRD
- Mast and antenna deployment
- Initial setup
- Satellite deployment
- Wireless access and networking
- Function testing
- Depowering the unit
- Q&A
- Required maintenance

Coverage Range

CRD for FirstNet



Cellular and internet connectivity. Anywhere. Anytime.

For more information, contact your FirstNet sales team at AT&T.

Manufactured by Rescue 42

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