miniCRD™ for FirstNet

Features

- FirstNet range up to ½ mile
- Wi-Fi hotspot up to 500 ft
- Supports up to 250 4G devices
- Weatherproof and waterproof
- High-speed satellite internet
- Transport on any vehicle
- FirstNet MegaRange™ High Power User Equipment (HPUE) compatible up to 1 mile
- Qualifies as checked airline luggage

Use Cases

- Emergency response
- Remote internet connectivity
- Business continuity and recovery
- Restore internet service
- Provide internet to other units
- Backup your PSAP or dispatch

Delivering FirstNet cellular and high-speed internet – when and where you need it

miniCRD system – Overview

The miniCRD for FirstNet® is a portable communication system that creates a FirstNet cellular and Wi-Fi hotspot using multiple backhaul pathways, supporting critical operations in remote environments. It offers enhanced portability and ease of deployment compared to larger deployable systems.

The system consists of 2 ruggedized cases that contain the miniCRD and the Satellite Link Case+ (SLC+).

Benefits

- **Delivers internet and cellular coverage when and where you need it**
  So you can connect and communicate in a crisis
- **Single-person deployment**
  Easy transport and deployment by a single person with no prior experience, by vehicle, air or sea
- **User-friendly and affordable**
  Features simple technology with an auto-acquiring satellite system

  - » Fully functional FirstNet cell site
  - » Connects directly to the cloud
  - » Goes straight to the incident location
  - » Supports Wi-Fi calling

System components

The **miniCRD case** is the FirstNet component in the system. It can connect to the internet in several ways – through wired Ethernet, Wi-Fi as Wide Area Network (WAN) or 4G – and then retransmit a low-power FirstNet cellular signal. This signal can cover roughly ½ mile in radius, or about 1 square mile, supporting FirstNet users in the field.

The **SLC+** is the satellite communications component. It carries a Starlink® High-Performance satellite terminal that can receive Starlink internet in the U.S., U.S. Virgin Islands, Puerto Rico and Pacific territories. This internet connection allows the miniCRD to provide connectivity even in remote areas.

Both cases have internal batteries and power management systems, but must have external power for long-term use. They are portable, with extendable handles and wheels, so you can carry or transport them in any vehicle – from ATVs and boats to helicopters and commercial aircraft. Operation is fully automatic, managed by just 2 power switches per unit, with status lights showing when each system is active.

You can use the cases together or independently, depending on your needs:

- miniCRD alone is ideal when existing LTE or wired backhaul connections are available and a FirstNet hotspot is needed

- SLC+ alone works as a Wi-Fi hotspot or can provide internet to other systems

Standard configurations and internet pathways

The miniCRD isn't just a cell site – it's designed to provide multiple solutions you can deploy in several ways. It connects to the internet using multiple pathways, known as WAN or backhaul, and communicates with users through Local Area Network (LAN) or user access.
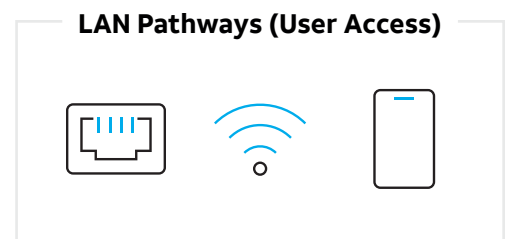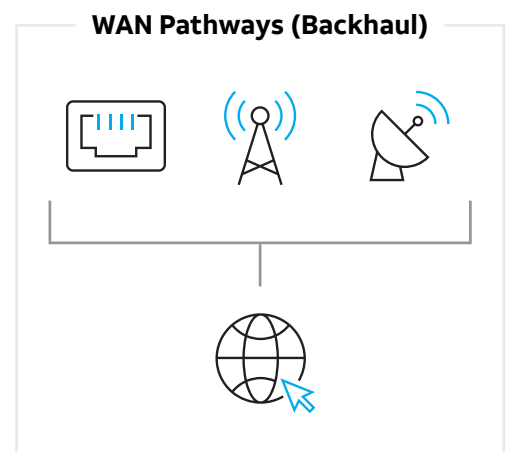
At its core is a Cradlepoint router that manages all inbound and outbound traffic. The router can connect to the internet through Ethernet (wired connection), Wi-Fi from another source, high-speed satellite (from SLC+) or cellular networks using FirstNet SIM cards. Flexible SIM card options allow the miniCRD to use whichever local cell towers are operational, and SIMs can be easily swapped as needed.

WAN Pathways (backhaul) – Connect the miniCRD to the internet
- Ethernet cable
- Wi-Fi
- LTE
- High-speed Starlink satellite

LAN Pathways (user access) – Connect the user to the miniCRD
- Ethernet cable
- Wi-Fi
- FirstNet LTE

> **Warning:** Do not transmit FirstNet cellular while FirstNet SIM cards are active in the Cradlepoint router. SIMs should only be used for Wi-Fi and wired ethernet with the FirstNet cell radio off.

WAN Pathways (Backhaul)

LAN Pathways (User Access)

Comparison Chart

The **CRD** for FirstNet established a new standard for easily deployable, FirstNet cellular coverage right at an incident or region.

The **miniCRD** provides local area coverage in a smaller, innovative form-factor that you can deploy right at the heart of an incident – makes the miniCRD system the perfect complement to your fleet of deployables.

The **SLC+** carries a Starlink® High-Performance satellite terminal that can receive Starlink internet in the U.S., U.S. Virgin Islands, Puerto Rico and Pacific territories.

	CRD	miniCRD	SLC+
FirstNet LTE coverage	Up to 2 miles	Up to ½ mile	--
MegaRange™ coverage	Up to 4 miles	Up to 1 mile	--
Coverage area	Regional (up to 12 square miles)	--	Starlink®
Satellite provider	Viasat®	--	Starlink®
Wi-Fi range	500 ft	500 ft	500 ft
Onboard power	Up to 240 hours (with generator/battery cycling)	Up to 2 hours (customer-provided power; vehicle and AC cables included)	Up to 2 hours (customer-provided power; vehicle and AC cables included)
Onboard generator	Yes	No	No
Transport	2" Class 3 or higher trailer hitch required	Any method, including hand-carry	Any method, including hand-carry
Case size	--	24" x 24" x 10" (85 lbs)	24" x 24" x 10" (85 lbs)

Pricing

- **To request a quote, contact: deployables@rescue42.com or 888-427-3728 ext. 2**
  - » Includes free delivery within the 48 contiguous United States
  - » Customer provides Starlink satellite data plan and SIM card(s)

Satellite data plan (Starlink)

Starlink	
Reseller	Starlink or Expedition Communications
Pause service anytime	Yes
Expected download	40-220 Mbps
Expected upload	8-25 Mbps
Latency	< 99ms
Service	24/7/365 – Online

- **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

Please note that stated speeds and uninterrupted service are not guaranteed. AT&T and Rescue 42 do not sell data plans.

For more information, please contact your FirstNet Sales Team at AT&T.

Specifications

miniCRD	SLC+
External	
• 24" x 24" x 10" | 85 lbs	• 24" x 24" x 10" | 85 lbs
• Dual Fan Baffled Ventilation Ports	• Dual Fan Baffled Ventilation Ports
• Waterproof Power & Ethernet Ports	• Waterproof Power & Ethernet Ports
• Lockable Case	• Lockable Case
• Airline Ready via Checked Luggage (with batteries in carry-on luggage)	• Airline Ready via Checked Luggage (with batteries in carry-on luggage)
Power System	
• Up to 2 Hours of Off-Grid Runtime	• Up to 2 Hours of Off-Grid Runtime
• AC Input & 6' AC Power Cord	• AC Input & 6' AC Power Cord
• 12 VDC Power Input & Cable (Vehicle, Battery, Solar) » Includes battery clamps and 12V auxiliary power plus	• 12 VDC Power Input & Cable (Vehicle, Battery, Solar) » Includes battery clamps and 12V auxiliary power plus

Specifications

miniCRD	SLC+
Power System, cont'd	

• System Battery and Power System
  » (2) Removable 7.2 Ah "Smart" LiFePO4 Batteries
  » 15A Micro-Processor Battery Charger
  » 300W Pure Sine Wave Inverter
	• System Battery and Power System
	  » (2) Removable 7.2 Ah "Smart" LiFePO4 Batteries
	  » 15A Micro-Processor Battery Charger
	  » 300W Pure Sine Wave Inverter

• Power Management Switches, Breakers, Spare fuses	• Power Management Switches, Breakers, Spare fuses
• Digital Battery Monitor with Bluetooth	• Digital Battery Monitor with Bluetooth
• Alarm system (visible and audible)	• Alarm system (visible and audible)
Communications and connectivity	

• FirstNet, Built with AT&T Nokia SBO eNodeB (Band 14)
  » Up to 1/2 Mile Range
  » Parsec 3-in-1 LTE & GPS for SBO300W Pure Sine Wave Inverter
	• SATCOM
	  » Starlink High Performance Terminal
	  » SLC+ Connects to miniCRD via Wi-Fi as
	  » WAN or Ethernet Cable

• Cradlepoint IBR900 Router (FirstNet Ready®)
  » Local & Cloud-Based NetCloud Manager
  » 3 Year, 24/7/365 Support
  » 3 Year Hardware Warranty
  » SD-WAN with Auto Failover/Failback
  » Parsec 5-in-1 LTE, Wi-Fi & GPS
	• Cradlepoint IBR900 Router (FirstNet Ready®)
	  » Local & Cloud-Based NetCloud Manager
	  » 3 Year, 24/7/365 Support
	  » 3 Year Hardware Warranty
	  » SD-WAN with Auto Failover/Failback
	  » Parsec 5-in-1 LTE, Wi-Fi & GPS

• Backhaul (WAN):
  » Wired Ethernet
  » Wi-Fi as WAN
  » LTE WAN (Customer Provided SIMs)
	• Backhaul (WAN):
	  » Wired Ethernet
	  » Wi-Fi as WAN
	  » LTE WAN (Customer Provided SIMs)

• User Access (LAN)
  » Wired Ethernet
  » Wi-Fi as WAN
  » LTE WAN (Customer Provided SIMs)
	• User Access (LAN)
	  » Wi-Fi 802.11 a/b/g/n/ac
	  » Wired Ethernet

Temperature	
• Operating -17° to 46° C (0° to 115° F)	• Operating -17° to 46° C (0° to 115° F)
Other	
• 1 Year manufacturer warranty • Owner's Manual	• 1 Year manufacturer warranty • Owner's Manual

FIRSTNET
Built with AT&T