

Data Sheet

Ericsson Private 5G Compact

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Ericsson Private 5G Compact is an end-to-end private cellular network solution designed for the needs of today's dynamic enterprise IT ecosystems. Initially based on the 4G LTE Citizens Broadband Radio Service (CBRS) spectrum in the USA, Ericsson Private 5G Compact is a cloud-native solution packaged to make it easy for enterprises to prioritize security and Quality of Service (QoS) while also enabling plug-and-play deployments that scale with an API-first design philosophy.

Ericsson Private 5G Compact provides an added layer of security over and above SIM-based authentication. The added layer of security is built from the ground up using zero trust principles and is based on a granular and dynamic policy framework that is core to the architecture. The policies are applied based on the connection's context, which includes network, user, device, environment, application, and cellular attributes.

Solution Architecture and Capabilities

NetCloud Interoperability

Ericsson Private 5G Compact utilizes a unified cloud management and orchestration experience that delivers SD-WAN, enterprise-class security, cellular intelligence, and advanced analytics at the edge through full interoperability with NetCloud Manager — all managed through a single pane of glass. NetCloud Manager intelligently integrates the CBRS Spectrum Access System (SAS) to manage and prevent interference. To optimize network coverage and QoS, RF planning tools are included as part of NetCloud Manager.

Mobility Gateway

Built around a converged 4G/5G cellular core, Ericsson Private 5G Compact has the flexibility to be deployed on the enterprise premises or in the cloud, thus enabling enterprises to maintain their data locally while still benefitting from the power of cloud-based configuration and policy management. With this inherent flexibility, the Ericsson Private 5G Compact Mobility Gateway enables secure access to enterprise data services from authenticated cellular endpoints.

Cellular Access Points

Notable benefits

- Implemented as an integrated system including edge to core single pane of glass visibility
- Inherent cellular-based security with unified policy management of access, network, SIM, and traffic from edge to core
- Extensibility leveraging RESTful APIs for dashboarding, custom applications, and integrations
- Leverage a large portfolio of Cradlepoint routers with features including ruggedization, Wi-Fi 6, gigabit Ethernet, containers, GNSS, PoE, and more

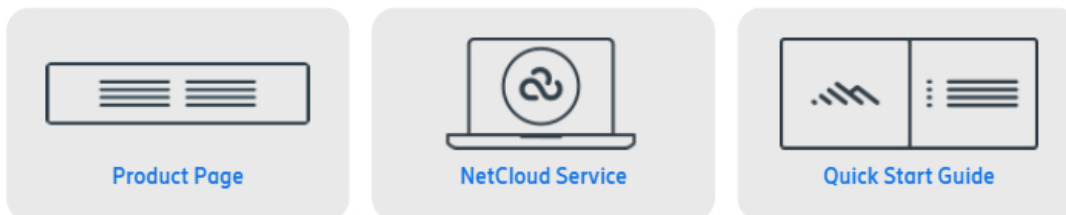
The Ericsson Private 5G Compact solution includes plug-and-play cellular access points (CAPs) that support the 4G LTE CBRS spectrum band 48. Sometimes referred to as small cells, these CAPs form the private radio access network (RAN) that cellular endpoints and clients connect to and are authenticated through the mobility gateway. CAPs rated for indoor locations (A2400) and outdoor environments (A2405 and A2415) work together to create contiguous private network connectivity across the entire enterprise location.

NetCloud Private SIM-Enabled Routers and Endpoints

Subscriber Identity Module (SIM) cards are critically required by every cellular network to authenticate edge devices such as cellular routers/adapters and cellular clients such as cell phones, tablets, and barcode scanners. In fact, any device that incorporates a NetCloud Private SIM card or Private eSIM can gain controlled access to the Ericsson Private 5G Compact — including third-party endpoints and routers. However, to realize the benefits of a fully converged and centrally managed system, Ericsson Cradlepoint CBRS routers and adapters are the preferred endpoint solution for connections to the LAN or SIM-less edge devices.

WAN Edge Router

The WAN edge router connects the on-premises equipment, including the Ericsson Private 5G Compact Mobility Gateway and CAPs, to the internet and remote data centers. Depending on the deployed Ericsson Private 5G Compact architecture, the WAN edge router may also connect remote CAPs at a site to a centralized mobility gateway in a data center. For the best end-to-end management, policy orchestration, and user experience, this WAN edge router may be a Ericsson Cradlepoint device, but third-party devices are also compatible with Ericsson Private 5G Compact and may be a better fit for some network architectures.



Mobility Gateway and Cellular Access Point Specifications

The Ericsson Private 5G Compact solution requires at least one mobility gateway and at least one cellular access point. For detailed specifications, see the following:

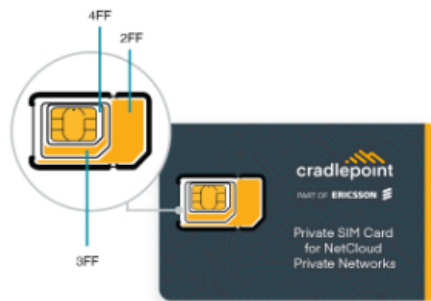
- [Ericsson Private 5G Compact A2400 Data Sheet](#)
- [Ericsson Private 5G Compact A2405 Data Sheet](#)
- [Ericsson Private 5G Compact A2415 Data Sheet](#)
- [Ericsson Private 5G Compact Mobility Gateway Data Sheet](#)

NetCloud Private SIM Specifications

NetCloud Private SIMs are required for each edge device that participates in the private network. SIMs for Ericsson Private 5G Compact can be traditional physical SIMs (NetCloud Private SIM) or digital eSIMs (NetCloud Private eSIM). NetCloud Private eSIMs can be downloaded onto a device that has consumer Embedded Universal Integrated Circuit Card (eUICC) capability (for example, an iPhone® 14 or a Google Pixel™). Once installed, NetCloud Private SIMs and NetCloud Private eSIMs have the same functionality and can be activated and managed from the Private SIMs page in NetCloud Manager.

PHYSICAL SIM CARD SPECIFICATIONS	
Form Factor:	Tri-cut (2FF, 3FF, 4FF)
Temperature Range:	-25 °C to 85 °C (-13 °F to 185 °F)
eSIM SPECIFICATIONS	
Edge Device Compatibility:	eUICC consumer eSIM capable

Physical SIM Card Info



Ordering Guide

Ericsson Private 5G Compact is comprised of a mobility gateway, cellular access point(s), and NetCloud Private SIMs, which all have corresponding NetCloud Service plans. For a complete end-to-end management solution, Ericsson Cradlepoint routers and adapters should be added to the system. For details on Ericsson Private 5G Compact features, refer to the summary on the [NetCloud Service](#) webpage and the detail in the NetCloud Service Features document. For more details on how to order Ericsson Private 5G Compact, refer to the following:

- Step 1:** Select the Ericsson Private 5G Compact **Mobility Gateway** capacity for entire solution
- Step 2:** Select the Ericsson Private 5G Compact **Cellular Access Point(s)** (selection of one or more indoor/outdoor models)
- Step 3:** Select the NetCloud **Private SIMs** for connected endpoints (selection of one or more plastic or digital SIMs)
- Step 4 (optional):** Select the supported **Ericsson Cradlepoint CBRS endpoints**

Step 5 (optional): Select the compatible Ericsson Cradlepoint WAN edge router

Step 6 (A2415 only): Select compatible external antennas

STEPS	COMPONENT	DESCRIPTION
1	Mobility Gateway	<ul style="list-style-type: none"> — 500 Mbps throughput — 2 Gbps throughput — 5 Gbps throughput
2	Cellular Access Point(s)	<ul style="list-style-type: none"> — Ericsson Private 5G Compact A2400 Indoor Cellular Access Point — Ericsson Private 5G Compact A2405 Outdoor Cellular Access Point — Ericsson Private 5G Compact A2515 Outdoor Cellular Access Point
3	Private SIMs — Plastic Private eSIMs — Digital	<ul style="list-style-type: none"> — Packs of 10 — Single eSIM
4 (optional)	Cradlepoint CBRS endpoints	<ul style="list-style-type: none"> — R500-PLTE Router — IBR1700 Router — R920 Router — R1900 5G Router — R2100 5G Router — E100 Router — E300 Router — E3000 Router — L950 LTE Adapter — W1850 5G Wideband Adapter — W1855 5G Wideband Adapter — W2005 5G Wideband Adapter — W4005 5G Wideband Adapter
5 (optional)	Cradlepoint WAN edge router	<ul style="list-style-type: none"> — E100 Router — E300 Router — E3000 Router — R1900 5G Router
6 (A2415 only)	External antennas, see the Ericsson Private 5G Compact A2415 Data Sheet for further details.	

NetCloud Service Plans

REGION	PACKAGE PLAN	DESCRIPTION†	PART NUMBER
US only:	Mobility Gateway	PROMO — 500 Mbps	NCPN-000x-MG500MBPS
		PROMO — 2 Gbps	NCPN-000y-MG2GBPS
		PROMO — 5 Gbps	NCPN-000y-MG5GBPS
		SIM Management for Plastic SIMs	PROMO — Private SIMs (10 pack)
	SIM Management for Digital eSIMs	Private eSIM (1 eSIM)	SA0x-SIM-DIGITAL-CB
CBRS Cellular Access Points — Essentials		PROMO — Indoor A2400 CAP with AC power supply and line cord	PA0x-2400NM-CN
		PROMO — Outdoor A2405 CAP with PoE injector and line cord	
		PROMO — Outdoor A2415 CAP with AC power supply and line cord, no antennas included	PB0x-2405NM-CC
			PE0x-2415NM-CN
Renewal — Mobility Gateway		500 Mbps — 1 year	NCPN-0001-MG500MBPS-R
Renewal — Cellular Access Point		Indoor — 1 year	PA01-NCESS-R
		Outdoor — 1 year	PB01-NCESS-R
Renewal — SIM Management for Plastic SIMs		Private SIMs (10 pack) — 1 year	SA01-NCPNSIM10-R
Renewal — SIM Management for Digital eSIMs		Private eSIM (1 eSIM) — 1 year	SA01-NCPNSIM-DIGITAL-R

x = 4 or 6 years

†PROMO SKUs (promotional SKUs) are available for a limited time and add an extra year to the standard 3- or 5-year NetCloud Service Plan. Starting 07/01/2024, new subscriptions revert to the standard 3- or 5-year NetCloud Service Plan. All renewals have a 1-year duration.

Support & Warranty

All Ericsson Private 5G Compact hardware and software are sold as part of a NetCloud Service package, which includes:

- Ericsson Enterprise Wireless Solutions Global Service & Support for the full subscription term.
- Hardware limited lifetime warranty for as long as the device has a subscription license to an active NetCloud Service Plan.

More Information

Learn more at [cradlepoint.com/netcloud-private-networks](https://www.cradlepoint.com/netcloud-private-networks)

