

Ericsson Cradlepoint S700

2026-08-28

The Ericsson Cradlepoint S700 semi-ruggedized router for IoT networks as a semi-ruggedized, cloud-managed LTE router, built for light industrial, IoT, and portable applications where security is a foundational requirement. Offering connectivity through LTE plus wired and Wi-Fi options, the S700 accommodates a variety of use cases in high-availability, portable, or fixed uses. The S700 is available with IoT Ericsson NetCloud Service plans, which provide features optimized for each unique deployment.

Semi-Ruggedized IoT Solution

When coupled with the NetCloud IoT service plan, the S700 router provides a compact, semi-ruggedized 4G LTE router solution for connecting and protecting IoT devices at scale. With an IP30-rated aluminum housing built to withstand vibration and temperature extremes and designed for DIN rail mounting, the S700 is ideal for use in light industrial applications such as oil and gas monitoring or in portable or fixed applications such as surveillance cameras, digital signs, and parallel networking. With an extensive list of features, it can be confidently deployed in the field, in buildings, or in embedded systems to deliver complete visibility, security, and control of connected devices anywhere.

Advanced, Cloud-Managed IoT Solution

For organizations requiring robust connectivity for IoT networks — with installed routers numbering from hundreds to many thousands — Ericsson's NetCloud Service for IoT with the S700 router provides a comprehensive cloud managed network solution. When coupled with advanced IoT features, it provides troubleshooting and diagnostics with in-band and Out-of-Band Management, extensive analytics and insights, and extensibility and integrations such as Microsoft Azure IoT Central. Ericsson's NetCloud-managed IoT endpoints can be rapidly deployed and easily scaled to accommodate the diverse requirements of organizations.



[Product Page](#)



[Ericsson NetCloud Service](#)



[Quick Start Guide](#)

Notable Features

- Define policies through centralized, cloud-based management for easy deployment at scale.
- Gain fast, reliable connectivity with an embedded Cat 4 modem with dual SIM support.
- Expand working radius and IoT connectivity with dual-band, concurrent Wi-Fi 6.
- Provide a semi-ruggedized, portable solution capable of enduring harsh temperatures and vibration.
- Utilize configurable GPIO ports and NetCloud integrations for IoT applications.
- Customize and extend Ericsson NetCloud Service functionality with NetCloud SDK and API.
- Provide Active GNSS/GPS for asset tracking and mobile IoT use cases.

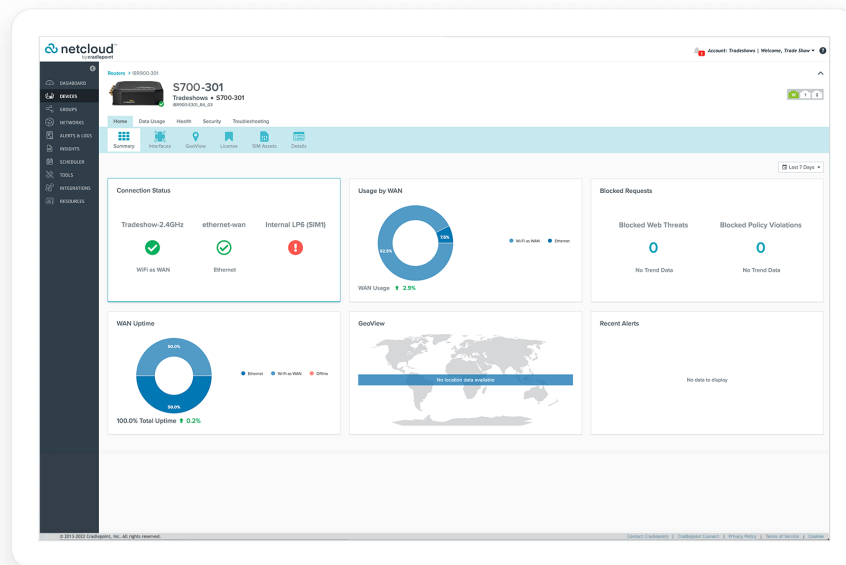
Key Software Capabilities

Ericsson NetCloud Service for the S700 router includes the appropriate router software with powerful cloud management features for managing IoT at scale. The Ericsson NetCloud Service includes cloud-based management for optimizing routing, secure tunneling, traffic steering, and foundational security capabilities. The cloud capabilities include defining and applying policies,

at-a-glance status insights, reports, troubleshooting, and analytics dashboards. The service includes a warranty for as long as an active IoT Essentials or Essentials + Advanced subscription on the router, online training, live and online support, and all software and firmware updates.

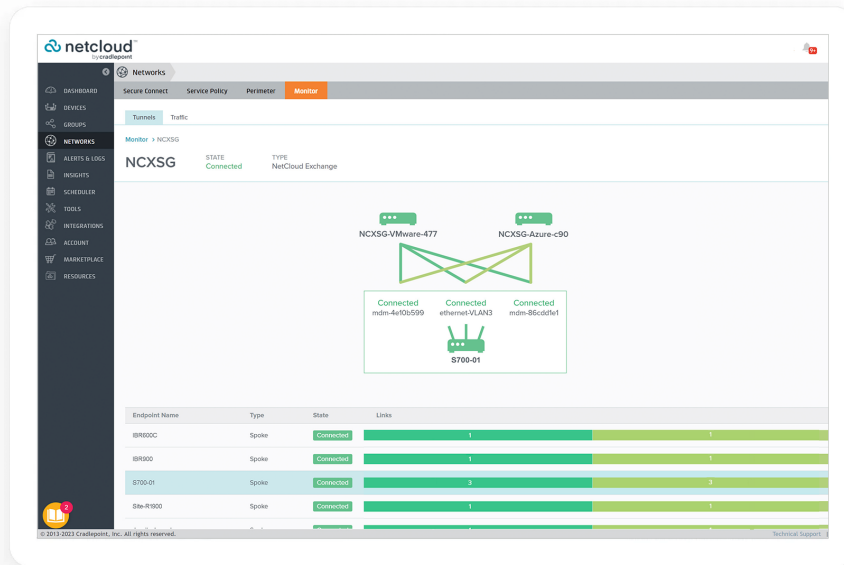
Encrypted Routing Services

The Ericsson NetCloud Service plus the S700 router provides local processing power to handle demanding, router-delivered services, such as support for VPN tunneling encryption including DMVPN, IPsec, GRE, and other tunneling technologies.



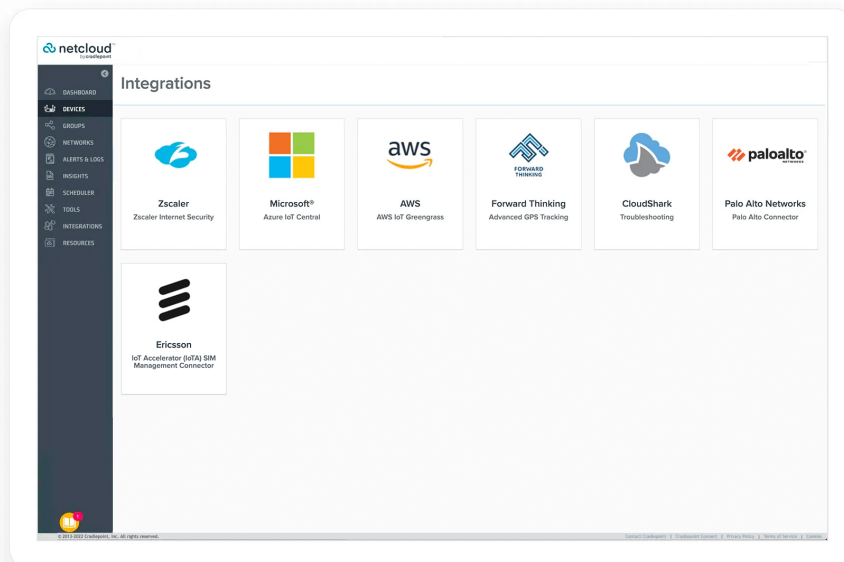
Security Services

Ericsson's zero trust security networking, delivered through Secure Connect, protects the Ericsson Cradlepoint IoT routers and any connected devices through connect-and-go ease. IoT or other devices simply connect to the router with encrypted tunnels to build micro networks that are instantly hidden from internal and external sites. Access policies are easily defined to enable IoT devices to communicate only with their authorized resources or applications and nothing else. The simple and secure zero trust access, delivered through Zero Trust Network Access, also enables authorized third parties' remote access to IoT devices on the WAN for remote monitoring and maintenance.



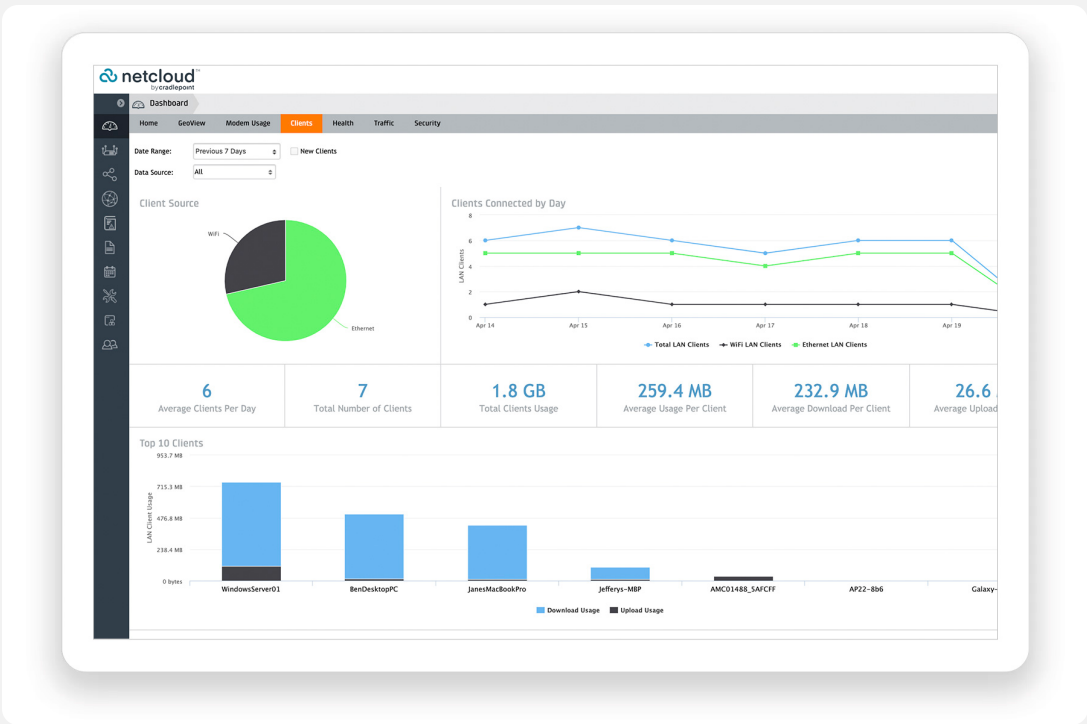
Extensibility and Integrations

Ericsson NetCloud Service and the S700 router can access network data that third-party applications need to provide higher levels of insights and control. Leverage pre-built connections to partner applications or create custom connections across a variety of use cases using the NetCloud SDK or NetCloud API.



Cloud Services

NetCloud Manager delivers true, zero-touch deployment with the ability to define and deliver policy across entire groups of endpoints. Users can create a cloud-orchestrated hub and spoke VPN network and gain insights and analytics required for rapid troubleshooting and diagnostic workflows.



Hardware Specifications

The following features are delivered through the hardware.

INTERFACES

Modem:	Embedded Cat 4 LTE modem 2 x SMA cellular antenna connectors
Ethernet:	2 x 1 GbE RJ45 (LAN/WAN switchable)

Wi-Fi:

Dual-radio, dual-band, concurrent operation (2.4 GHz and 5 GHz)

- 2x2 MIMO 802.11ax Wi-Fi 6
- 574 Mbps (2.4 GHz) and 1.2 Gbps (5 GHz)
- 2 x RP-SMA Wi-Fi antenna connectors
- WPA/WPA2/WPA3 Personal, WPA2/WPA3 Enterprise, Open
- Wi-Fi Alliance Certified

Expansion:

1 x USB 2.0 Type A (output: 5 V, 500 mA, 2.5 W)

GNSS/GPS:

1 x SMA GNSS antenna connector

ENVIRONMENTAL**Temperature:**

- Operating: -20 °C to 60 °C (-4 °F to 140 °F)
- Storage: -40 °C to 85 °C (-40 °F to 185 °F)

Humidity:

- Operating: 10% to 90%
- Storage: 5% to 95%

Ingress Protection:

IP30

POWER**Required:**

One of the following:

- DC input range: 9–33 VDC
 - For 9–12 VDC installations, use a 3 A fuse
 - For > 12 VDC installations, use a 2 A fuse
- PoE Power
 - 802.3af PSE Type 1 (15 W)

Features:

- Reverse polarity and transient voltage protection (ISO 7637-2)
- Ignition sensing (automatic ON and time-delay OFF)

Consumption:

- Idle: 9 W
- Typical: 13 W
- Heavy: 14.5 W

PHYSICAL

Size: 123 x 118 x 34 mm (4.8 x 4.6 x 1.3 in)

Weight: 516 g (18.2 oz)

Construction: Aluminum housing

RELIABILITY**Calculated MTBF:**

- S700-C4D: 428,000 hours (Telcordia SR332 at 25 °C)
- S700-C4E: 423,399 hours (Telcordia SR332 at 25 °C)
- S750-C4D: 483,373 hours (Telcordia SR332 at 25 °C)

CERTIFICATIONS**Safety:**

- UL/cUL
- CB Scheme
- EN 62368-1

Vehicle: SAE J1455-2006 Operating Sinusoidal Vibe, Category 2 Section 4.10.4.1

Rail: EN 61373 Category 1, Class B (Railway rolling stock)

Substance Compliance:

- WEEE
- RoHS
- REACH
- California Prop 65

Security:

FIPS 140-3 Level 1 Module in Process (S700 and S705 FIPS models only)

Shock/Vibration/Humidity:

- EN 61373 Category 2 (Vibration)
- MIL-STD-810H Method 514.8, Annex C-1, Category 4 (Vibration)
- MIL-STD-810H Method 516.8, Procedure 1 and V (Shock)
- MIL-STD-810H Method 516.8 4.6.6, Procedure V

CLOUD SERVICES**Service Plans:**

Ericsson NetCloud Service for IoT

Service Add-Ons:

NetCloud Exchange, Ericsson NetCloud Advanced

Support:

Ericsson NetCloud packages include support for the full subscription term.

Warranty:

All Ericsson Cradlepoint hardware products are covered by a limited lifetime warranty for as long as they have a subscription license to an active Ericsson NetCloud Service plan.

Device Management:

NetCloud Manager for the full subscription term.

Software Updates:

NetCloud Manager for the full subscription term.

WI-FI POWER**FCC:**

- 2.4 GHz: 35.66 dBm EIRP
- 5150–5250 MHz: 26.59 dBm EIRP
- 5250–5350 MHz: 25.33 dBm EIRP
- 5470–5725 MHz: 25.15 dBm EIRP
- 5750–5825 MHz: 26.22 dBm EIRP

Rest of World:

- 2.4 GHz: 19.99 dBm EIRP
- 5180–5240 MHz: 22.38 dBm EIRP
- 5260–5320 MHz: 22.32 dBm EIRP
- 5500–5700 MHz: 27.45 dBm EIRP

PERFORMANCE

Stateful Firewall:	480 Mbps
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IPS/Application Aware Services/Client Analytics:	480 Mbps
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Point-to-Point IPsec VPN:	50 Mbps
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Concurrent VPN Tunnels:	10
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Concurrent Sessions (TPC):	100,000
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Typical Client Count:	20
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Layer 2 / Layer 3 VLANs:	Up to 64
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LEDs

See the [S700 Series Semi-Ruggedized Router Quick Start Guide](#).

Performance testing conducted based on requirements as defined in RFC2544 using fixed-frame 1518-byte packets. Throughput results reflect uni-directional UDP traffic with less than 1% packet loss as tested with wired connections. Results do not reflect performance of the cellular wireless operator networks.

The S700 Router supports the Cradlepoint Software Development Kit (SDK).

Enterprise-Class Modem Specifications

SPECIFICATION**S700-C4D**

Technology:	Cat 4 LTE (3GPP Rel. 11), DC-HSPA+
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- Dual SIM slots, 4FF form factor
- SIM-based auto-carrier selection

3G:	WCDMA/UMTS/HSPA+
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Carrier Aggregation: N/A

Peak Rates: LTE

- Downlink: 150 Mbps
- Uplink: 50 Mbps

WCDMA

- Downlink: 42.2 Mbps
- Uplink: 5.76 Mbps

MIMO: 2x2 MIMO

Modulation: Up to 16 QAM

4G/LTE Bands: LTE FDD

- B2 (1900), B4 (1700), B5 (850), B12 (700), B13 (700), B14 (700), B66 (1700), B71 (600)

3G Bands: 2, 4, 5

Power: LTE 23 dBm $\pm$ 2, DC-HSPA+ 23 dBm $\pm$ 1 (typical conducted)

Antennas: SMA female connectors, external 600 MHz - 6 GHz cellular paddle antennas (Qty 2, included only with certain packages)

GNSS/GPS: Active GNSS

- GPS, GLONASS, BeiDou, Galileo

SMS: Yes

Regulatory:

- FCC (U.S.)
- IC (Canada)

Network Operator Standards: PTCRB (U.S., Canada)

GCF Global Operators: <https://www.globalcertificationforum.org/membership/gcf-members-directory.html>[†]

**PTCRB North America
Operators:**

<https://www.ptcrb.com/about/>

**Network Operator
Certifications[†] :**

- AT&T
- T-Mobile
- Verizon

**Public Safety
Network
Certifications:**

- FirstNet TrustedTM
- T-Mobile Connecting Heroes
- Verizon Frontline

**Private Cellular
Network:**

N/A

SPECIFICATION

S700-C4E

Technology:

Cat 4 LTE (3GPP Rel. 11), DC-HSPA+

- Dual SIM slots, 4FF form factor
- SIM-based auto-carrier selection

3G:

UMTS/HSPA+

**Carrier
Aggregation:**

N/A

Peak Rates:

LTE

- Downlink: 150 Mbps
- Uplink: 50 Mbps

WCDMA

- Downlink: 42.2 Mbps
- Uplink: 5.76 Mbps

MIMO:

2x2 MIMO

Modulation:	Up to 16 QAM
4G/LTE Bands:	LTE FDD - B1 (2100), B2 (1900), B3 (1800), B4 (1700), B5 (850), B7 (2600), B8 (900), B12 (700), B13 (700), B18 (850), B19 (850), B20 (800), B25 (1900), B26 (850), B28 (700) LTE TDD - B38 (2600), B39 (1900), B40 (2300), B41 (2500)
3G Bands:	1, 2, 4, 5, 6, 8, 19
GSM/EDGE:	B2, B3, B5, B8
Power:	LTE 23 dBm $\pm$ 2, DC-HSPA+ 23 dBm $\pm$ 1 (typical conducted)
Antennas:	SMA female connectors, external 600 MHz - 6 GHz cellular paddle antennas (Qty 2, included only with certain packages)
GNSS/GPS:	Active GNSS GPS, GLONASS, BeiDou, Galileo
SMS:	Yes
Regulatory:	FCC (U.S.), IC (Canada), CE (European Union), RCM (AU/NZ)
Network Operator Standards:	PTCRB (U.S., Canada), GCF (Worldwide)
GCF Global Operators:	https://www.globalcertificationforum.org/membership/gcf-members-directory.html [†]
PTCRB North America Operators:	https://www.ptcrb.com/about/
Network Operator Certifications[†]:	Verizon
Public Safety Network Certifications:	N/A

**Private Cellular
Network:**

N/A

SPECIFICATION

S750-C4D

Technology:

Cat 4 LTE (3GPP release 11), DC-HSPA+

- Dual SIM slots, 4FF form factor
- SIM-based auto-carrier selection

3G:

WCDMA/UMTS/HSPA+

Carrier Aggregation:

N/A

Peak Rates:

LTE

- Downlink: 150 Mbps
- Uplink: 50 Mbps

WCDMA

- Downlink: 42.2 Mbps
- Uplink: 5.76 Mbps

MIMO:

2x2 MIMO

Modulation:

Up to 16 QAM

4G/LTE Bands:

LTE FDD

- B2 (1900), B4 (1700), B5 (850), B12 (700), B13 (700), B14 (700), B66 (1700), B71 (600)

3G Bands:

2, 4, 5

Power:

LTE 23 dBm $\pm$ 2; HSPA+ 23 dBm $\pm$ 1 (typical conducted)

Antennas:

SMA female connectors, external 600 MHz - 6 GHz cellular paddle antennas (Qty 2, included only with certain packages)

GNSS/GPS:**Active GNSS**

- GPS, GLONASS, BeiDou, Galileo

SMS:

Yes

Regulatory:

FCC (U.S.), IC (Canada)

**Network Operator
Standards:**

PTCRB (U.S., Canada)

**GCF Global
Operators:**<https://www.globalcertificationforum.org/membership/gcf-members.html>[†]**PTCRB North America
Operators:**<https://www.ptcrb.com/about/>**Network Operator
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- AT&T
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**Private Cellular
Network:**

N/A

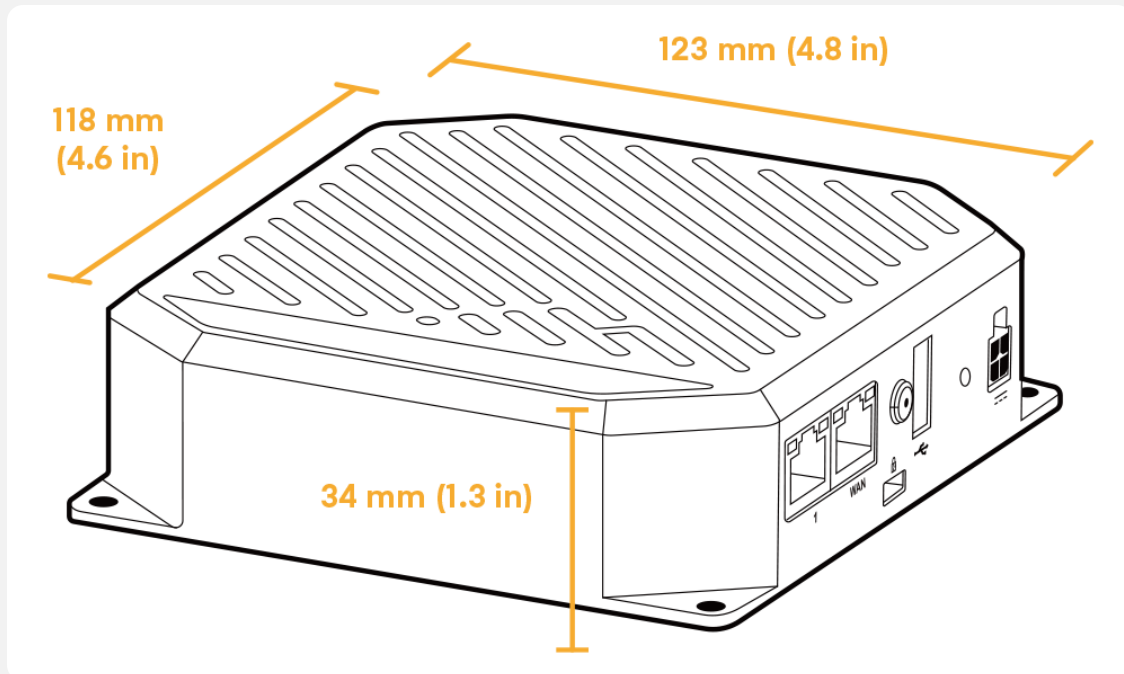
[†] Cellular carriers and operators throughout the world may only require telecom industry certifications, like PTCRB or GCF, to operate on their network. Some carriers require additional testing and approval, beyond telecom certifications. A carrier listed in the approvals section means Cradlepoint completed additional testing and acquired technical approval for that given carrier. Any carrier not listed may not require additional testing or approval beyond telecom industry certifications to operate on their network.

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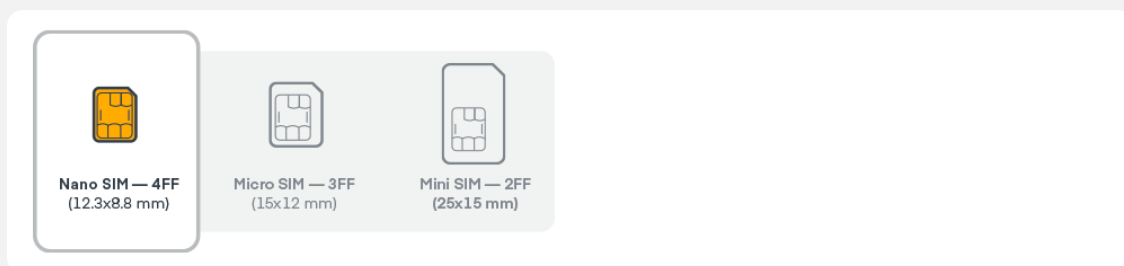
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Physical Measurements & Features



SIM Card Info



Ordering Guide

Ericsson NetCloud IoT Essentials packages and plans contain all the features and capabilities required for a broad range of IoT applications. Essentials packages include 24x7 support (phone support: 24-hour weekdays with emergency response on weekends, web: 24x7, chat: 24x5) and a limited lifetime warranty.

For additional capabilities, an **Ericsson NetCloud IoT Advanced Plan** can be added to the Ericsson NetCloud Essentials package at any time.

Ericsson NetCloud IoT Connectivity packages and plans contain the features and capabilities required for a range of entry-level IoT applications. IoT Connectivity packages include access to the technical documentation portal, on-demand Ericsson Wireless University training, and a one-year warranty.

For additional capabilities, an **Ericsson NetCloud IoT Essentials Add-on** can be added to the Ericsson NetCloud IoT Connectivity package at any time.

See additional details of what is included in the Essential and Advanced Ericsson NetCloud software: cradlepoint.com/netcloud-service

NetCloud IoT Packages for the S700 Series Router

REGION	MODEM	IOT PACKAGE PLAN	PART NUMBER
North America: U.S. & Canada	Cat 4 (150 Mbps) with Wi-Fi	Essentials	TB0y- 0700C4D- NA
		Essentials + Advanced	TBAy- 0700C4D- NA
	Cat 4 (150 Mbps) with Wi-Fi, AC power supply, and antennas	Essentials	TB0y- 0700C4D- NN
		Essentials + Advanced	TBAy- 0700C4D- NN
	Cat 4 (150 Mbps) without Wi-Fi	Essentials	TB0y- 0750C4D- NA
		Essentials + Advanced	TBAy- 0750C4D- NA

	Cat 4 (150 Mbps) without Wi-Fi, with AC power supply and antennas	Essentials Essentials + Advanced	TB0y- 0750C4D- NN TBAy- 0750C4D- NN
North America: U.S., Canada & Mexico	Cat 4 (150 Mbps) with Wi-Fi	Essentials Essentials + Advanced	TB0y- 0700C4E- GA TBAy- 0700C4E- GA
	Cat 4 (150 Mbps) with Wi-Fi, AC power supply, and antennas	Essentials Essentials + Advanced	TB0y- 0700C4E- GM TBAy- 0700C4E- GM
North America: Mexico	Cat 4 (150 Mbps) with Wi-Fi, AC power supply, and antennas	IoT Connectivity	TBFy- 0700C4E-GM
United States Federal Government:	Cat 4 (150 Mbps) with Wi-Fi	TAA Compliant NC — Essentials TAA Compliant NC — Essentials + Advanced	TAA-TB0y- 0700C4D- NA TAA-TBAy- 0700C4D- NA

	Cat 4 (150 Mbps) with Wi-Fi, AC power supply, and antennas	TAA Compliant NC — Essentials	TAA-TB0y- 0700C4D- NN
		TAA Compliant NC — Essentials + Advanced	TAA-TBAy- 0700C4D- NN
	Cat 4 (150 Mbps) without Wi-Fi	TAA Compliant NC — Essentials	TAA-TB0y- 0750C4D- NA
		TAA Compliant NC — Essentials + Advanced	TAA-TBAy- 0750C4D- NA
	Cat 4 (150 Mbps) without Wi-Fi, with AC power supply and antennas	TAA Compliant NC — Essentials	TAA-TB0y- 0750C4D- NN
		TAA Compliant NC — Essentials + Advanced	TAA-TBAy- 0750C4D- NN
	Cat 4 (150 Mbps) with Wi-Fi	TAA Compliant NC FIPS — Essentials + Advanced	TAA-TBAy- 0700C4D-FA
	Cat 4 (150 Mbps) with Wi-Fi, AC power supply, and antennas	TAA Compliant NC FIPS — Essentials + Advanced	TAA-TBAy- 0700C4D-FN
	Cat 4 (150 Mbps) without Wi-Fi	TAA Compliant NC FIPS — Essentials + Advanced	TAA-TBAy- 0750C4D-FA

	Cat 4 (150 Mbps) without Wi-Fi, with AC power supply and antennas	TAA Compliant NC FIPS — Essentials + Advanced	TAA-TBAy- 0750C4D-FN
Worldwide: Australia, Canada [†] , European Union, Philippines, Singapore, New Zealand & United Kingdom	Cat 4 (150 Mbps) with Wi-Fi	Essentials	TB0y- 0700C4E-
		Essentials + Advanced	GA TBAy- 0700C4E- GA
	Cat 4 (150 Mbps) with Wi-Fi, AC power supply, and antennas	Essentials	TB0y- 0700C4E-
		Essentials + Advanced	GM TBAy- 0700C4E- GM

All Regions:

Advanced	TBx-NCADV
Essentials Add-on for IoT Connectivity	TBFx- NCCES
Renewal Essentials	TAx-NCESS- R
Renewal Advanced	TBx- NCADV-R
Renewal Essentials + Advanced	TBAx-NCEA- R
Renewal IoT Connectivity	TBFx- NCCONL-R
Renewal IoT Connectivity to Essentials Add-on	TBFx- NCCES-R

x = 1, 3, or 5 years
y = 3 or 5 years
† Recommended option for Canada sales.

Accessories

INCLUDED WITH ALL ROUTERS	PART NUMBER
GPIO and Power Cable, 2x2, 2 meters, 20 AWG	170908-000
INCLUDED WITH DESIGNATED SKUS	PART NUMBER

One of the following:

- | | |
|---|------------|
| • Power Supply, 12 VDC, 2x2, 1.5 meters (North America Type A) | 170716-001 |
| • Power Supply, 12 VDC, 2x2, 1.5 meters (North America-United Kingdom-Europe-Australia Types A-G-C-I) | 170717-000 |

Cellular Antenna, Charcoal, 600 MHz - 6 GHz, SMA, 180 mm (Qty 2)	170801-000
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Wi-Fi Antenna, 2.4/5 GHz RPSMA GRA 184 mm (Qty 2)	170836-000
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OPTIONAL	PART NUMBER
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GPIO Cable, Small 2x2 MPP Black, 3 meters, 20 AWG	170864-000
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USB to RS232 Extensibility Cable	170873-000
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DIN Rail Mounting Bracket	170904-000
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UNITED STATES FEDERAL GOVERNMENT	PART NUMBER
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Power Supply, 12 V, Small 2x2, 1.5 meters (North America Type A)	TAA-170716-001
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Power Supply, 12 V Small 2x2, 1.5 meters (North America-United Kingdom-Europe-Australia Types A-G-C-I)	TAA-170717-000
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Cellular Antenna, Charcoal, 600 MHz - 6 GHz, SMA, 180 mm	TAA-170801-000
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Wi-Fi Antenna, Charcoal, Dual-band 2.4/5 GHz, RPSMA, 194 mm	TAA-170836-000
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GPIO Cable, Small 2x2 MPP Black, 3 meters, 20 AWG	TAA-170864-000
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DIN Rail Mounting Bracket	TAA-170904-000
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Support & Warranty

The Ericsson Cradlepoint S700 Series Router is only sold as a component of Ericsson NetCloud IoT Connectivity, IoT Essentials or Essentials + Advanced packages.

- Only Ericsson NetCloud IoT Essentials or Essentials + Advanced Packages include support for the full subscription term.
- All Ericsson Cradlepoint hardware products are covered by a limited lifetime warranty for as long as they have a subscription license to an active Ericsson NetCloud IoT Essentials or Essentials + Advanced Service plan.

[Find the most up-to-date information at cradlepoint.com/s700](https://cradlepoint.com/s700)