



BluCloud Cellular Network Coverage

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The BluCloud unit connects over a global multi-carrier cellular network, automatically selecting the strongest available signal. Coverage spans 550+ networks across 190+ countries, with all major US carriers including Verizon, T-Mobile, and AT&T.

GLOBAL NETWORKS

550+

COUNTRIES COVERED

190+

SIM TECHNOLOGY

eUICC

SIM NETWORK PROFILES

470+

RADIO TECHNOLOGIES

LTE-M · NB-IoT · LTE

US CARRIERS

Verizon · T-Mobile · AT&T

SIM TECHNOLOGY — EUICC (EMBEDDED UNIVERSAL IC CARD)

PARAMETER	DETAIL
SIM form factor	eUICC — embedded, programmable over-the-air (no physical SIM swap required)
Consumer equivalent	"eSIM" concept applied to IoT applications
Compliance standard	GSMA Remote SIM Provisioning (RSP)
Network profiles stored	470+ carrier credentials held on a single SIM simultaneously
Network auto-switching	Yes — selects strongest available network automatically; no manual intervention
OTA reprogramming	Yes — profiles can be updated remotely without physical access to device
Roaming model	Permanent roaming on all standard plan networks

KEY ADVANTAGE OF EUICC

A single physical SIM dynamically attaches to whichever of 470+ pre-loaded network profiles offers the best signal at the device's current location — eliminating the need to swap SIMs when deploying across regions, or as carrier coverage evolves over time.



RADIO ACCESS TECHNOLOGIES (RATS)

TECHNOLOGY	CHARACTERISTICS & IOT RELEVANCE
LTE-M (Cat-M1)	Low Power Wide Area (LPWA) standard purpose-built for IoT and small data payloads. Low power draw, wide area coverage, supports device mobility. Designed for sensors transmitting periodic small data bursts. Primary RAT for BluCloud devices.
NB-IoT (Narrow Band)	Similar profile to LTE-M with even lower power consumption. Not yet widely adopted globally. Best suited for stationary, low-data, fixed sensors. <i>Less suitable for mobile or roaming deployments.</i>
LTE (4G)	Standard 4G broadband. Widely available and higher bandwidth, but not IoT-optimized — higher power draw than LTE-M. Used as a fallback when LTE-M is unavailable in a given location.

CONNECTIVITY PLAN TIERS — SUMMARY COMPARISON

FEATURE / ATTRIBUTE	US-ONLY TYPICAL	CANADA-ONLY	GLOBAL	CUSTOM
Geographic Coverage	United States	Canada	190+ countries	Configurable
US Carrier Access	Verizon, AT&T, T-Mobile + roaming	—	Verizon, AT&T, T-Mobile + roaming	Verizon, AT&T, T-Mobile + expanded pool
Canada Access	—	Canadian standard carriers	Yes (global plan)	Yes — native high-performance
5G Access	✗ Not available	✗ Not available	✗ Not available	✓ US & Canada 5G
Brazil (permanent roaming)	N/A	N/A	✗ Custom plan required	✓ Available
Turkey	N/A	N/A	Temporary roaming only	Temporary roaming only
Expanded Network Pool	Standard	Standard	Standard	✓ Larger carrier pool



UNITED STATES COVERAGE

PARAMETER	DETAIL
Plan available	US-Only standard plan
Primary carriers	Verizon, AT&T, T-Mobile
Additional access	Roaming on other US carriers
Verizon	Verizon-certified — available via multi-carrier SIM on standard US plan
5G availability	Custom plan (US & Canada 5G networks)

CANADA COVERAGE

PARAMETER	DETAIL
Plan available	Canada-Only standard plan
US + Canada combined	Custom plan available — contact your BluCloud representative
5G in Canada	Custom plan — native high-performance 5G networks

GLOBAL / INTERNATIONAL

PARAMETER	DETAIL
Countries covered	190+ (most of the world)
Global networks	550+ carrier networks
SIM profiles loaded	470+ simultaneously on eUICC
Roaming model	Permanent roaming on all standard plan networks
Plan required	Global standard plan
Expanded coverage	Custom plan unlocks additional carrier pool
Sanctioned countries	Cuba, Belarus, Iran, N. Korea, Russia, Syria — blocked on all plans

US CARRIER AVAILABILITY

CARRIER	STATUS
Verizon	Available — the BluCloud unit is Verizon-certified, enabling connection to the Verizon network through the multi-carrier SIM
T-Mobile USA	Available — live on LTE and LTE-M
AT&T	Available on US standard plan
Other US carriers	Accessible via roaming on standard US plan

EUICC NETWORK SELECTION — AUTO-SWITCHING LOGIC

eUICC auto-selects from 470+ pre-loaded carrier profiles. Switching is automatic and transparent — no SIM swap or manual reconfiguration. LTE-M is preferred for IoT power efficiency; LTE used as fallback.



SPECIAL COUNTRY REQUIREMENTS

COUNTRY	RESTRICTION & NOTES
Brazil	Custom plan required for permanent roaming. Standard and Global plans do not support long-term device deployment stationed in Brazil. Contact your BluCloud representative for custom plan availability.
Turkey	Temporary roaming only on all plan tiers. Devices may pass through or operate in Turkey temporarily (e.g. during transit), but cannot be permanently stationed there on any plan.

BLOCKED COUNTRIES — US SANCTIONS COMPLIANCE

The following countries are **blocked on all plan tiers** due to US government sanctions regulations. No connectivity can be established regardless of plan, device, or configuration.

- Cuba
- Belarus
- Iran
- North Korea
- Russia
- Syria

COMPLIANCE NOTE

Connectivity to sanctioned countries is prohibited under US export control and sanctions regulations. This restriction applies to all BluCloud devices and plan tiers without exception.

VERIZON NETWORK — CERTIFIED & READY

PARAMETER	DETAIL
Verizon certification status	Certified — the BluCloud unit is Verizon-certified, enabling direct connection to the Verizon network
Connection method	Accessed through the multi-carrier eUICC SIM — no separate SIM or plan required
Availability	All major US carriers — Verizon, T-Mobile, and AT&T — are available on the standard US plan
Network selection	Automatic — the eUICC SIM selects the strongest available carrier signal at the device's location

ALL MAJOR US CARRIERS INCLUDED

The BluCloud unit is Verizon-certified, enabling connection to the Verizon network through the multi-carrier SIM. All major US carriers including Verizon, T-Mobile, and AT&T are available. The eUICC SIM automatically selects the strongest available signal — ensuring reliable connectivity regardless of which carrier has the best coverage at any given location.



DOCUMENT REVISION HISTORY

VERSION	DATE	DESCRIPTION	AUTHOR
1.0	August 2026	Initial issue — BluCloud Cellular Network Coverage	BluCloud Engineering

Network counts, country coverage figures, and plan availability are subject to change. Contact your BluCloud representative or visit www.blucloud.tech for the latest information.