U.S. Transportation Private CBRS Network Forecast, 2021 – 2026

iGR

U.S. Transportation Private CBRS Network Forecast, 2021 – 2026:

CBRS Network Build, Integration and App Spending in Transportation Buildings

A Market Study

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Abstract

Transportation buildings encompass airports, bus and railway stations, as well as inland and coastal ports. There are thousands of airports, bus, and railway stations/terminals in the U.S. Many of these buildings are already home to distributed antenna systems (DAS), small cells and Wi-Fi systems to handle travelers' voice/data traffic, along with enterprise communications. Additionally, there are several hundred inland and coastal ports in the U.S. through which import/export traffic passes. These ports are typically covered by a combination of Wi-Fi and MNO-owned cellular networks.

For this report, iGR defines an in-building private cellular system as one that uses the U.S. CBRS band for 4G/5G-based services and is funded by a third party distinct from a Mobile Network Operator (MNO). Note that iGR includes campus-wide cellular networks within the "in-building" umbrella. In this report, the vast acreage covered by ports or airports is considered a "campus" deployment.

This report defines a transportation building as one located at an airport, bus or railway station/terminal or port. Note that iGR has excluded all warehouse and/or storage buildings, even those located in transportation hubs, because those warehouse/storage buildings are included in their own report.

This market study provides a five-year forecast for spending for three types of spending on private cellular systems using CBRS in U.S. transportation buildings. The three types of spending include:

- Network build and operational spending: the costs associated with installing and operating the private CBRS network
- Network/systems integration spending: the costs associated with designing, sourcing equipment, integrating the network and applications, etc.
- Applications: the costs associated with purchasing and licensing the applications that run on the private CBRS network.

Key questions addressed in this market study include:

- What is a private cellular network?
- How can a private cellular network be used to create a connected transportation building/campus?
- What is the primary purpose of a connected transportation building or campus and what role do these buildings play in supply chain logistics?
- What technologies are required for a connected transportation building or campus?
- What use cases are enabled in a connected transportation building or campus?
- How much will be spent to build and operate a private CBRS network in U.S. transportation buildings from 2021 to 2026?

- What is the forecasted network/systems integration spending associated with the private CBRS network opportunity in U.S. transportation buildings from 2021 to 2026?
- What is the forecasted applications spending for private CBRS networks in U.S. transportation buildings from 2021 to 2026?

Who should read this report?

- Systems integrators and wireless network integrators
- CBRS solutions vendors
- Mobile operators
- Infrastructure OEMs
- Financial analysts and investors.