



**U.S. Logistics
Private CBRS Network
Forecast, 2021 – 2026**





U.S. Logistics Private CBRS Network Forecast, 2021 – 2026: *CBRS Network Build, Integration and App Spending in Manufacturing, Warehouse, Retail and Transportation Buildings*

A Market Study

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Table of Contents

Abstract	3
Executive Summary.....	5
Total Spending for Private CBRS Networks, Logistics.....	6
Table A: Total Spending for Private CBRS Networks in Logistics Buildings by Type of Spending, 2021-2026 (\$M).....	6
Figure A: Total Spending for Private CBRS Networks in Transportation Buildings by Type of Spending, 2021-2026 (\$M).....	7
Table B: Total Spending for Private CBRS Networks in Logistics Buildings by Type of Building, 2021-2026 (\$M)	7
Figure B: Total Spending for Private CBRS Networks in Logistics Buildings by Type of Building, 2021-2026 (\$M)	8
What this means	8
Methodology.....	9
Manufacturing.....	9
Warehouse and Storage	9
Retail.....	9
Transportation	10
Private Cellular Networks	10
Sources	11
Definitions	12
Logistics Buildings & Campuses	13
What is Logistics?.....	13
Smart Logistics and business functions	14
Challenges.....	15
Role of cellular private networks in logistics	15
Figure 1: Cellular 4G/5G Use Cases	16
What is Required for Connected Logistics?.....	17
Arguments for Private CBRS Networks.....	18
Arguments against private CBRS networks	19
Case Studies	19
Outlook for Private CBRS Networks in Logistics.....	20
Technologies and spectrum behind connected logistics buildings.....	21
5G.....	21
CBRS	22
Forecast Methodology and Assumptions	24
Basic Assumption	24
Buildings Methodology.....	24
Methodology – Manufacturing Buildings.....	24
Methodology – Commercial Buildings	25
Table 1: Commercial Buildings in the U.S.	26
Methodology – Warehouse and Storage	26
Methodology – Retail.....	27
Methodology – Transportation (Airports and Rail).....	27
Table 2: Sub-types of Public Assembly Buildings	27
Methodology – Transportation (Ports).....	28
Network Build & Operate Spending Methodology	28
Network Build Spending	28

Operational Spending.....	29
Network/Systems Integration: Assumptions and Methodology	29
Application Spending: Assumptions and Methodology.....	30
Private CBRS Network Spending Forecast – Logistics Buildings	32
Private CBRS Networks Build and Operation.....	32
Network Build and Operational Spending - Manufacturing.....	32
Table 3: Total CBRS Private Network Spending for Manufacturing Buildings, 2021-2026 ...	32
Figure 2: Total CBRS Private Network Spending for Manufacturing Buildings, 2021-2026 ..	33
Network Build and Operational Spending – Warehouse & Storage	33
Table 4: Total CBRS Private Network Spending for Warehouse and Storage Buildings,	
2021-2026	33
Figure 3: Total CBRS Private Network Spending for Warehouse and Storage Buildings,	
2021-2026	34
Network Build and Operational Spending – Retail	34
Table 5: Total CBRS Private Network Spending for Retail Buildings, 2021-2026	34
Figure 4: Total CBRS Private Network Spending for Retail Buildings, 2021-2026.....	35
Network Build and Operational Spending – Transportation	35
Table 6: Total CBRS Private Network Spending for Transportation Buildings, 2021-2026 ...	35
Figure 5: Total CBRS Private Network Spending for Transportation Buildings, 2021-2026..	36
Network Build and Operational Spending – Total Logistics.....	36
Table 7: Total CBRS Private Network Spending for Logistics Buildings, 2021-2026	36
Figure 6: Total CBRS Private Network Spending for Logistics Buildings, 2021-2026	37
Private CBRS Networks Systems Integration.....	37
Systems/Network Integration.....	37
Table 8: Private CBRS Systems/Network Integration Spending in Logistics Buildings, 2021-	
2026, (\$M)	37
Figure 7: Private CBRS Systems/Network Integration Spending in Logistics Buildings, 2021-	
2026.....	38
Private CBRS Networks Applications.....	38
Applications spending.....	38
Table 9: Private CBRS Applications Spending in Logistics Buildings, 2021-2026, (\$M).....	38
Figure 8: Private CBRS Network Application Spending in Logistics Buildings, 2021-2026...	39
Total Spend	39
Table 10: Total Spending for Private CBRS Networks in Logistics Buildings by Type of	
Spending, 2021-2026 (\$M).....	39
Figure 9: Total Spending for Private CBRS Networks in Transportation Buildings by Type of	
Spending, 2021-2026 (\$M).....	40
Table 11: Total Spending for Private CBRS Networks in Logistics Buildings by Type of	
Building, 2021-2026 (\$M)	40
Figure 10: Total Spending for Private CBRS Networks in Logistics Buildings by Type of	
Building, 2021-2026 (\$M)	41
Definitions	42
Definitions Table	42
About iGR	59
Disclaimer	59

Abstract

This report focuses on the private CBRS network opportunity in the logistics function which includes the following industries: Manufacturing, Warehouse & Storage, Retail, and Transportation (focused on rail- and air-cargo). Logistics is a huge topic about which much has been written. At a high level, the term is variously defined as:

- Managing how resources are acquired, stored, and transported to their destination(s).
- Planning and executing the transportation and storage of goods from the point of origin to the point of consumption.

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, a “campus” deployment includes, for example, the loading and unloading area of a manufacturing facility, warehouse or distribution center, an open-air shopping area, or the vast acreage covered by ports and airports.

This market study provides a five-year forecast for spending on private cellular systems using CBRS for logistics and supply chain applications in four types of U.S. buildings/campuses:

- Manufacturing
- Warehouse and Storage
- Retail
- Transportation (airports, railway stations/terminals, ports).

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?
- What is logistics and smart logistics?
- How can a private cellular network be used to support logistics and supply chain management?

- What technologies are required for smart logistics?
- What use cases are enabled by connected logistics buildings?
- How much will be spent to build and operate a private CBRS network in U.S. manufacturing, warehouse, retail and transportation buildings from 2021 to 2026?
- What is the forecasted network/systems integration spending associated with the private CBRS network opportunity in U.S. manufacturing, warehouse, retail, and transportation buildings from 2021 to 2026?
- What is the forecasted applications spending for private CBRS networks in U.S. manufacturing, warehouse, retail and 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.